6851

ORDER NO. VED9104065C1
D6

Service Manual

Color Video Monitor
BT-H1350Y
G16M-1 Chassis

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

System:	Interlaced, PAL/ SECAM/NTSC 3.58/NTSC 4.43
Power Source:	AC 120V, 60Hz
Max Amps:	1.5A
Picture Tube:	86 (8 × 10-3/4) Sq. inches (13″ diagonal) High Resolution CRT 0.31 mm Dot Pitch, 90-degree deflection
Speaker Output:	1.5W
Video/Audio Terminals: (LINE A/LINE B)	
Video Input;	1.0Vp-p ±2dB, 75Ω or HIGH impedance (Auto), BNC type connector
Video Through Out;	Automatic Termination Opener, BNC type connector
Audio Input;	0.5Vrms, 22kΩ or more, phono type connector
Audio Through Out;	Phono type connector
S-Video Input;	Y signal 1.0Vp-p, C signal 0.285Vp-p, 75Ω or HIGH impedance (Manual), MINI DIN 4P type connector
S-Video Output;	Y signal 1.0Vp-p, C signal 0.285Vp-p, 75Ω or HIGH impedance (Manual), MINI DIN 4P type connector
VCR Terminal:	
Video Input;	1.0Vp-p ±2dB, 75Ω
Audio Input;	1.0Vrms, 22kΩ or more, 8 pin connector

Component: (RGB & YP_BP_R switchable)

RGB:	R;	0.7Vp-p ±2dB, 75Ω, BNC type connector
	G;	0.7Vp-p ±2dB, 75Ω, BNC type connector
	B;	0.7Vp-p ±2dB, 75Ω, BNC type connector
YP_BP_R:	Y;	1.0Vp-p ±2dB, 75Ω, BNC type connector
	P_B;	0.7Vp-p ±2dB, 75Ω, BNC type connector
	P_R;	0.7Vp-p ±2dB, 75Ω, BNC type connector
Sync.:		0.3Vp-p ±2dB, 75Ω, BNC type connector
Audio:		0.5Vrms, 22kΩ or more, phono type connector

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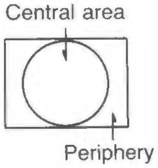
Ext. Sync.:	4.0Vp-p$^{+6}_{-26}$dB negative, 75 Ω with automatic loop-through output, BNC connector (2)
Resolution:	750 TV lines (Horizontal)
Picture Linearity:	Vertical within ±5% Horizontal within ±7%
Frequency Response:	
Line;	100Hz to 8MHz ±3dB
RGB;	100Hz to 8MHz ±3dB
AFC Time Constant;	0.8 ms; FAST 3 ms; SLOW
Retrace Time:	Horizontal retrace time within 10μs Vertical retrace time within 1 ms
Color Temperature:	6500K, 9300K
Convergence Error:	
Central area;	Less than 0.5 mm
Periphery;	Less than 0.7 mm



Chromacity Cordinate:

		x	y
CA	**R**	0.630 ±0.010	0.340 ±0.010
	G	0.310 ±0.010	0.595 ±0.010
	B	0.155 ±0.007	0.070 ±0.007

Dimensions:	
Width;	14 inches (356 mm)
Depth;	16-1/5 inches (419 mm)
Height;	13-3/8 inches (341 mm)
Weight:	31-15/16 lbs (14.5 kg)
Operating Temperature:	32°F～104°F (0°C～+40°C)
Operating Humidity:	20%～80%
Warm Up:	30 minutes to meet specifications
Accessory:	AC Power cord
Option:	Rack Mounting Kit (BA-131)

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

Contents

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ORDER NO. VED9410194S1
D6

Service Manual

Supplement

Color Video Monitor

BT-H1350Y
BT-S1360Y
BT-S1370Y

Subject: Revisions to the blue signal only function and the circuits.
The circuit diagrams and Instruction Book have also been revised.

Please file and use this supplement manual along with the service manual for the below table.

This supplement issue contains the modifications of the three models as same content and Supplement Number of these models are shown as follows.
Please use a copy when requiring for each model.

Service Manual for Reference			
Model No.	**Order No.**	**Supplement No.**	**Chassis No.**
BT-H1350Y	VED9104065C1	Supplement-4	G16M-1
BT-S1360Y	VED9109072C1	Supplement-5	G16M-3
BT-S1370Y	VED9109074C1	Supplement-5	G16M-3

Function

OLD	NEW
A white screen is displayed if the screen symptom includes a blue signal when the blue signal only switch has been turned on, and a black screen is displayed when a blue signal is not included.	The screen symptom becomes a blue screen when the blue only switch is on.

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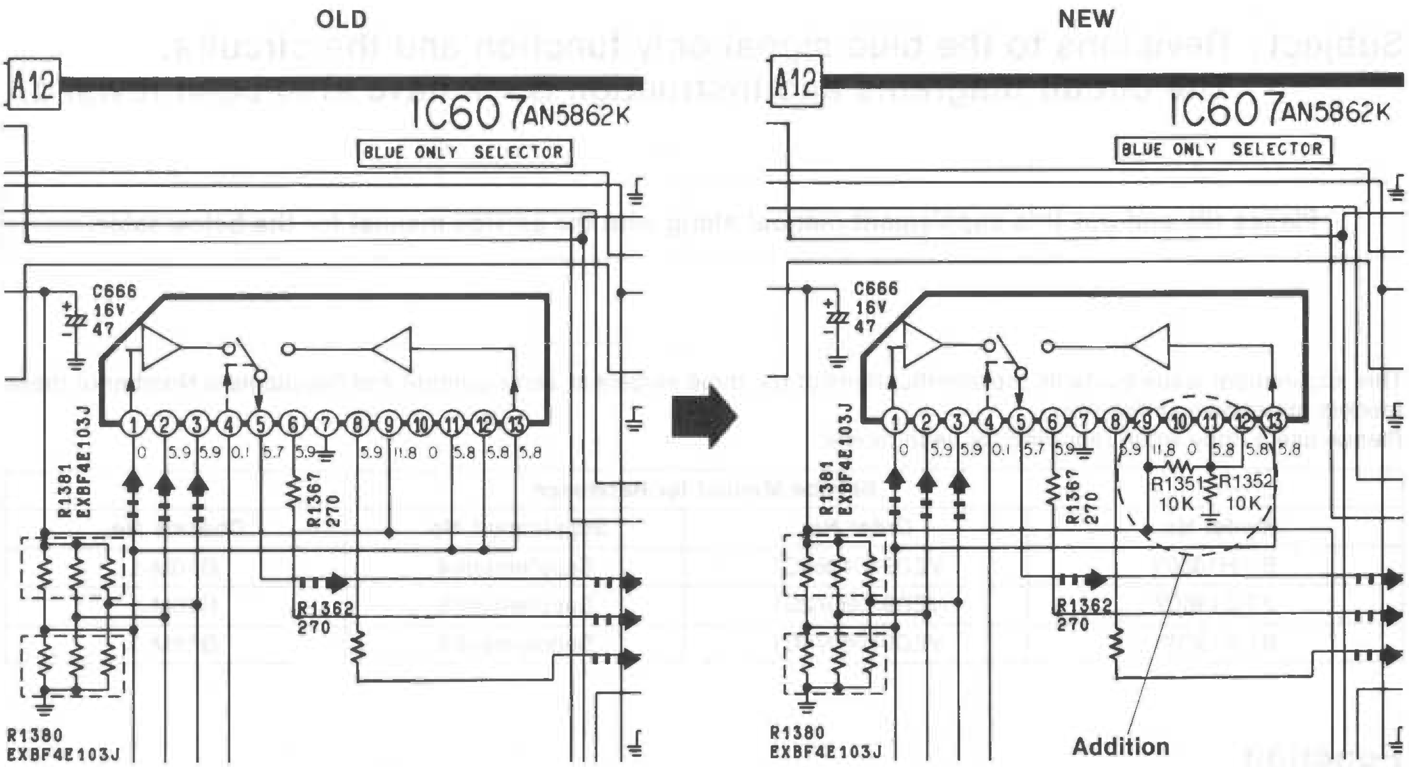
⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Schematic diagram (A-P.C. board)

Model No.	A-P.C. board Part No.	On Page
BT-H1350Y	TNP190103GZ	Supplement-1 Page 10
BT-S1360Y	TNP190103CZ	56
BT-S1370Y	TNP190103EZ	54



Replacement parts list

Ref. No.		Part No.		Description
		OLD	NEW	
	R1351	——	**ERDS2TJ103**	C 10K OHM J 1/4W
	R1352	——	**ERDS2TJ103**	C 10K OHM J 1/4W
	M21	TQB510097-1	**TQB510097-2**	INSTRUCTION BOOK (BT-H1350Y)
	M41	TQB510156	**TQB510156-1**	INSTRUCTION BOOK (BT-S1360Y)
	M39	TQB510158	**TQB510158-1**	INSTRUCTION BOOK (BT-S1370Y)

Application time

	Model No.	Serial No.
Application time (Serial No.)	BT-H1350Y	FE4140001～
	BT-S1360Y	FE4140001～
	BT-S1370Y	FE4140001～

Printed in Japan
H94091800 MH

ORDER NO. VED9209126S1
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Service Manual

Supplement-3

Color Video Monitor

BT-H1350Y

Chassis No. G16M-1

Subject: Measurement and adjustment modification and parts change

Please file and use this supplement manual together with the service manual for Model No. BT-H1350Y Order No. VED9104065C1.

Reason: Improvement of performance

Measurements and adjustments

Replace "SECAM DISCRIMINATION ADJUSTMENT" with following ones. (on page 27 and 28)

SECAM DISCRIMINATION ADJUSTMENT (A-P.C. board)

1. Equipment to used
   Oscilloscope
   Video generator
2. Adjustment procedure
   1. Set the input selector switches to LINE A.
   2. Set the TV system selector switch to SECAM.
   3. Input a SECAM color bar pattern signal to VIDEO input terminal.
   4. Connect an oscilloscope CH1 to **TPA19** and CH2 to **TPA18**. (200 mV range)
   5. Checking the waveform as shown in fig. 19.

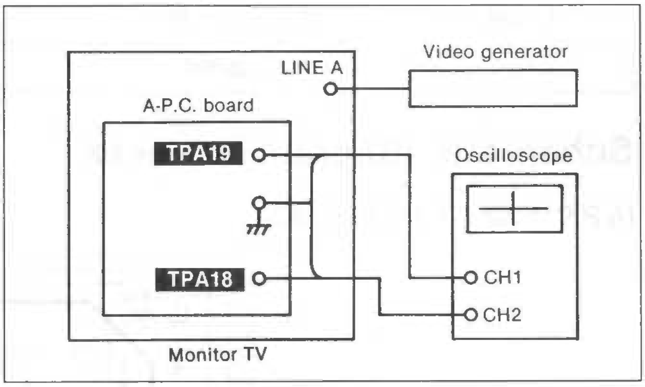

Fig. 18

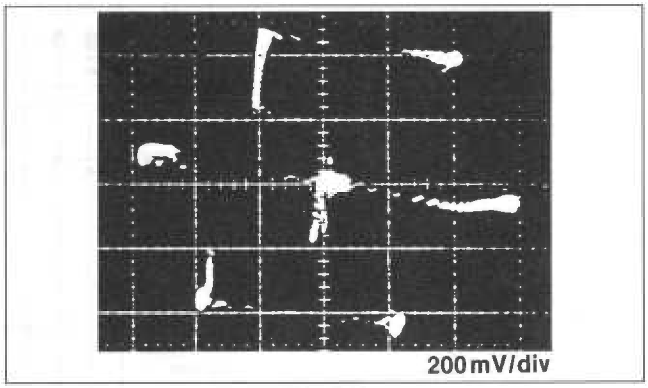

Fig. 19

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6. Set the range to 20mV.
7. Adjustment L617 (X-axis) and L618 (Y-axis) so that the points A and B become almost together. (Fig. 20-1 and Fig. 20-2)

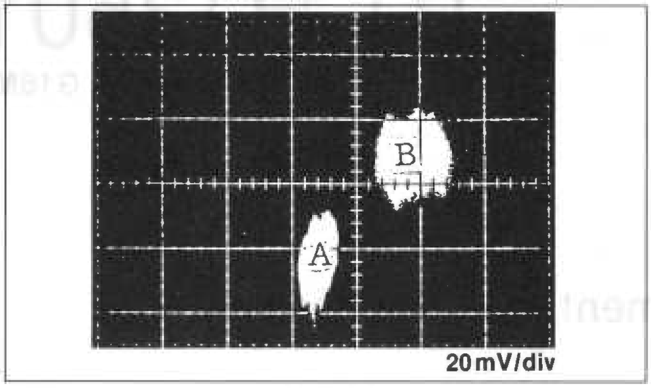


Fig. 20-1

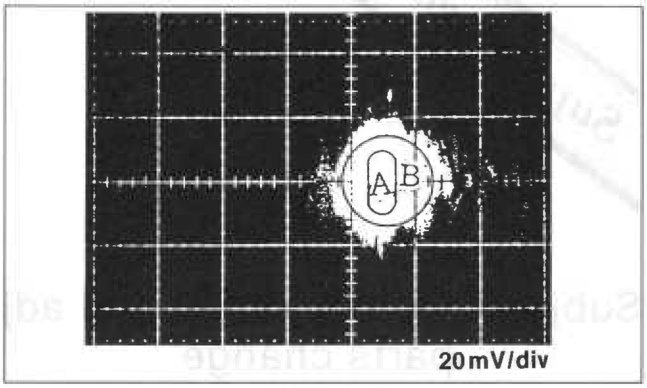


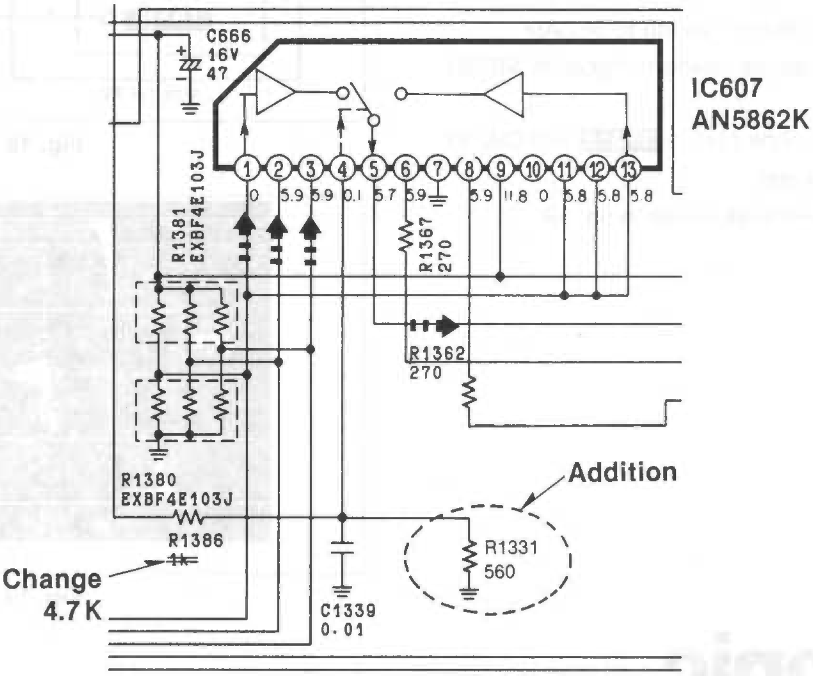
Fig. 20-2

Replacement parts list

	Ref. No.	Part No.		Description
		Old	New	
	R1331	——	**ERDS2TJ561**	C 560 OHM J 1/4W
	R1386	ERDS2TJ102	**ERDS2TJ472**	C 4.7K OHM J 1/4W
	K10	TBM130560	**TBM130560-1**	MODEL PLATE

Schematic diagram (on page 60)

(A-P.C. board TNP190103AZ)



Addition

Change
4.7K

Printed in Japan
H92092050 AS

- **PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J IN EFFECT AS OF DATE OF MANUFACTURE.**

IMPORTANT SAFETY NOTICE

There are special components used in Panasonic Monitor sets which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC COMMUNICATIONS & SYSTEMS COMPANY.

Safety Precaution

GENERAL GUIDELINES

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. Before turning the monitor on, measure the resistance between B+ line and cold side chassis ground. Connect the ⊖ side of an ohmmeter to the B+ lines, and the ⊕ side to chassis ground. Each line should have more resistance than specified, as follows:

B+Line	Minimum Resistance
103V (IC804 ①)	100kΩ
20V (IC751 ③)	3kΩ
18.5V (TPA85)	50kΩ
15V (IC802 ①)	100Ω
12V (IC802 ③)	100Ω

5. When the monitor is not used for a long period of time, unplug the power cord from the AC outlet.
6. Potentials, as high as 24.0kV±1kV are present when this monitor is in operation. Operation of the monitor without the rear cover involves the danger of a shock hazard from the monitor power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to chassis ground before handling the tube.
7. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the monitor, such as screwheads, connectors, control shafts, etc.
   When the exposed metallic part has a return path to the chassis, the reading should be more than 1MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

LEAKAGE CURRENT HOT CHECK (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5 kΩ, 10 watt resistor, in parallel with a 0.15 μF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Fig. 1.
3. Use a high impedance AC voltage meter to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 500μA. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the monitor should be repaired and rechecked before it is returned to the customer.

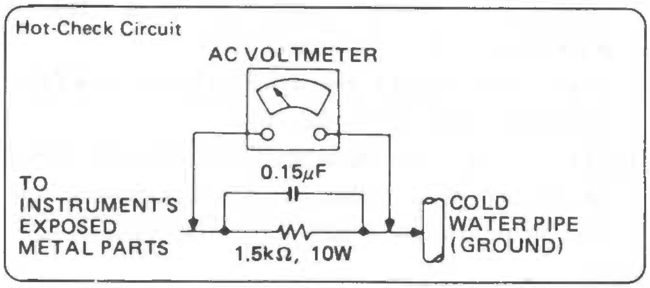


Fig. 1

X-RADIATION

WARNING: 1. The potential source of X-Radiation in Monitor set is the High Voltage section and picture tube.

2. When using a picture tube test jig for service, make sure that the jig is capable of handling 25.0 kV without causing X-Radiation.

NOTE: It is important to use an accurate, periodically calibrated high voltage meter.

1. Turn the Brightness control (R5115), the Contrast control (R5111) and the RGB Contrast control (R5132) fully counterclockwise.
2. Measure the High Voltage. The meter (electrostatic type) reading should indicate 24.0kV±1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

HORIZONTAL OSC. DISABLE CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

1. With the rear cover removed, supply a nominal 120V AC to the set, turn on the power switch.
2. Set the customer controls to their normal operating position.
3. Add DC voltage (+25V) to pin ④ of IC551.
4. Confirm that the picture falls out of horizontal sync.
5. If this does not occur, the Horizontal Osc. Disable Circuit is not operating. Follow the Horizontal Oscillator Disable Circuit Repair Procedures before the set is returned to customer.

REPAIR PROCEDURES OF HORIZONTAL OSCILLATOR DISABLE CIRCUIT

1. Connect a DC voltmeter between capacitor C515 ⊕ on the A-board and chassis ground. If nearly +24.7V is not present on that point, find the cause.
   Check R521, C515 and D558.
2. Connect a DC voltmeter between pin ⑮ of IC501 on the A-board and chassis ground.
   If nearly +3.0V is not present on that point, check R509, R510, R512, R542, IC551 and IC501.
3. Carefully check the above specified parts and related circuits and parts. When the circuit is repaired, the Horizontal Oscillator Disable Circuit Test must be made again.

Circuit Explanation

HORIZONTAL OSCILLATOR DISABLE CIRCUIT

The positive DC voltage supplied from the cathode of D558 for monitoring the high voltage is applied to pin ④ of IC551 and to the base of Q903 through R909.

The voltage at the emitter of Q903 is regulated by Zener Diode D901. Under normal conditions, the voltage applied across the base and emitter of Q903 is not sufficient to cause emitter current to flow and holds the transistor cut off.

If the high voltage exceeds the specified level, the positive DC voltage supplied from the cathode of D558 increases. The voltage through D558 is dividing by R909 and R908, and applied to the base of Q903. If Vbe is nearly more than +0.7V, the transistor Q903 turns on, and the collector voltage of Q903 lowers which is connected to the base of Q902.

Therefore Q902 turns on, and the collector voltage of Q902 increases, which is connected to the base of Q901. Consequently Q901 turns on, and collector current of Q901, which is connected to the pin ⑮ of IC501, begins to flow simultaneously. This causes the horizontal oscillator frequency to increase, and also causes loss of horizontal synchronization. (Fig. 2)

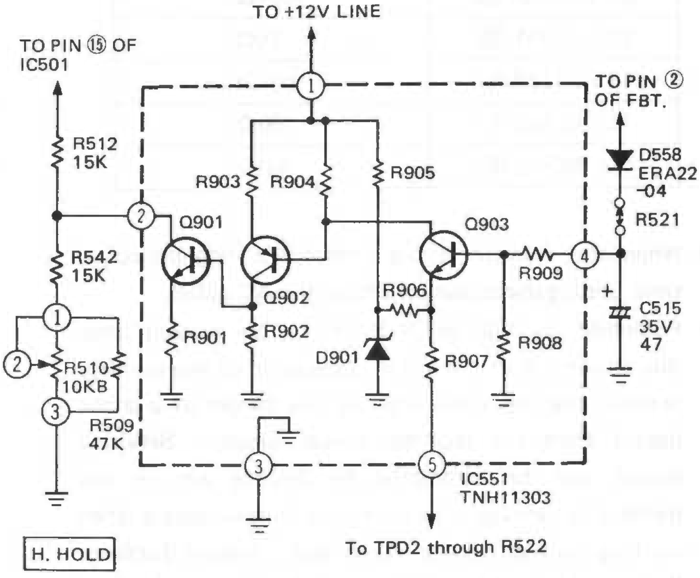
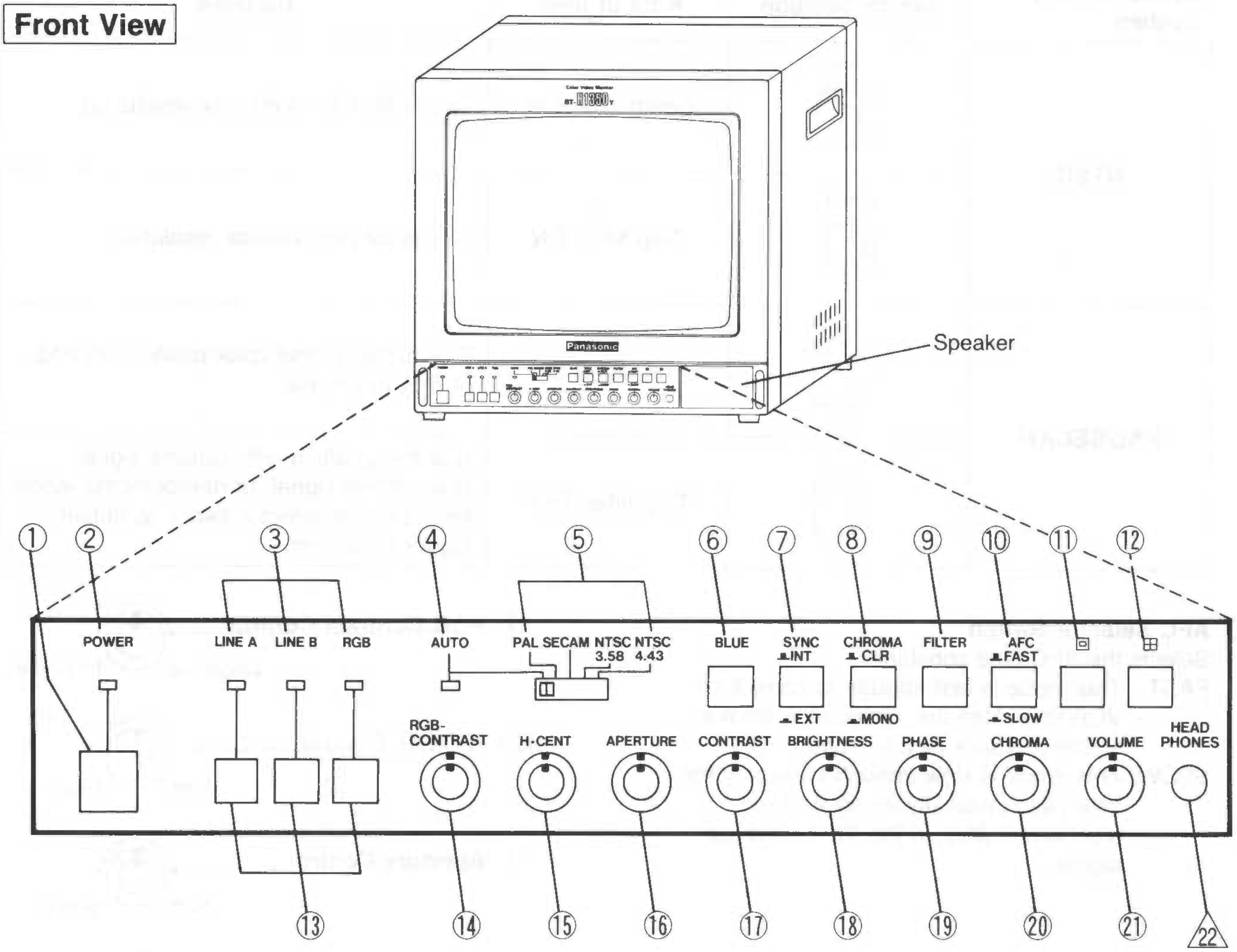


Fig. 2

Location of Controls and Switches

Front View



① **Power Switch**
Power ON/OFF

② **Power Indicator**
This indicator will be light when power is ON.

③ **Input indicators**
These indicators will be light when it is selected input channel.

④ **Auto indicator**
This indicator will be light when TV system selector switch is AUTO mode.

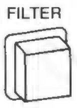
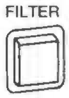
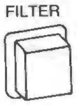
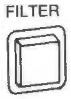
⑤ **TV System Selector Switch**
This switch is normally set at AUTO. However, if the picture can not be received at Auto mode appropriately. Set the switch to the desired position.

⑥ **Blue Signal Only Switch**
Depress this switch to observe BLUE SIGNAL in Black and White. This makes it easier to adjust chrominance and hue (using SMPTE color bar display) and increases visibility of video tape dropouts and playback noise.

⑦ **Sync (INT/EXT) Selector Switch**
INT: The monitor operates on the sync signal from the displayed composite video signal.
EXT: The monitor operates on an external sync signal supplied from the EXT SYNC connector on the rear panel.

⑧ **Chroma Switch**
Depress this switch to observe Black and White picture.

⑨ **Filter Selector Switch**
ON or OFF the switch so that the picture becomes better.

Broad casting system	Switch position	Kind of filter	Purpose
NTSC		Comb filter: ON	This is for high horizontal resolution.
		Trap filter: ON	This is for high vertical resolution.
PAL/SECAM		Trap filter: ON	This is the normal color position on PAL or SECAM signal.
		Trap filter: OFF	Use this position with camera signal, Black/White signal, or monochrome mode on the Mode selector switch to obtain higher resolution.

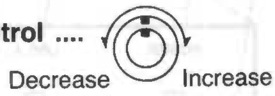
⑩ **AFC Selector Switch**
Selects the AFC time constant.
FAST : This mode is fast enough to correct for VCR jitter. Use the position to obtain a stable playback picture from a VCR.
SLOW: This mode is slow enough to display the time base instability introduced by mechanical jitter, in the VCR playback signal.

⑪ **Underscan Switch** ▣
Depress this switch for underscanning.
The display size is reduced by approximately 5% so that four corners of the raster are visible.

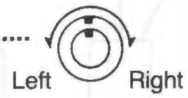
⑫ **Horizontal/Vertical Delay Switch** ⊞
Depress this switch to observe the horizontal/vertical sync signal. The picture is delayed horizontally/vertically and the horizontal/vertical sync signal is displayed in the left/center of the screen. Picture brightness is automatically increased for easy observation.

⑬ **Input Selector Switches**
Three signal inputs (LINE A/LINE B/RGB) can be selected.

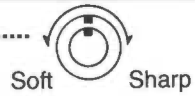
⑭ **RGB Contrast Control** ....



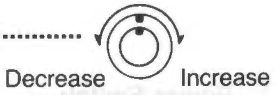
⑮ **H.CENT Control** ....



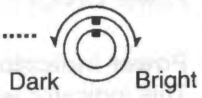
⑯ **Aperture Control** ....



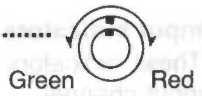
⑰ **Contrast Control** ....



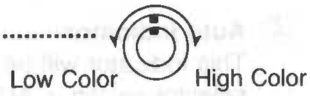
⑱ **Brightness Control** ....



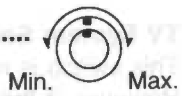
⑲ **Phase Control** ....



⑳ **Chroma Control** ....



㉑ **Volume Control** ....

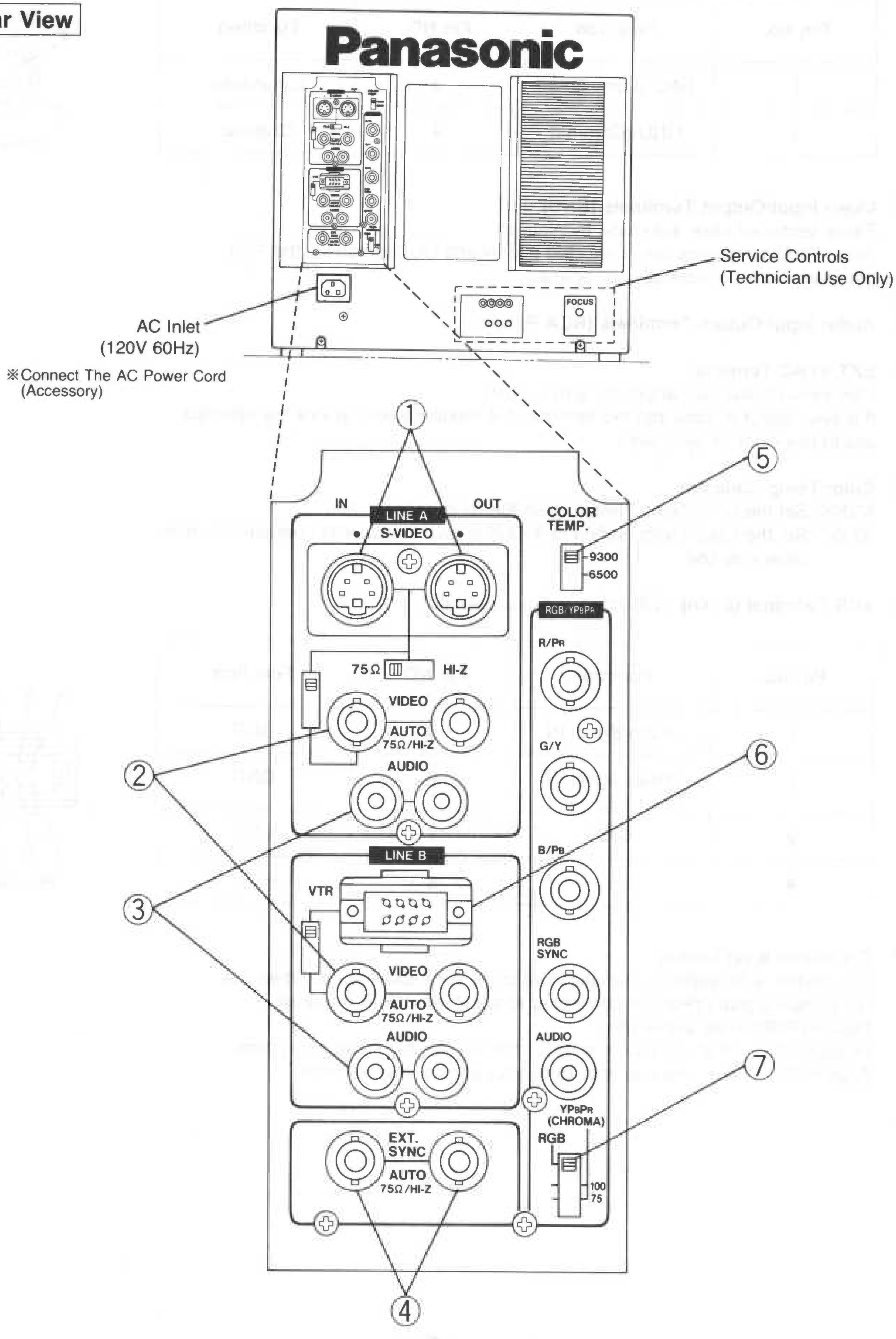


(22) **Headphones Jack**

Location of Terminals

BT-H1350Y

Rear View



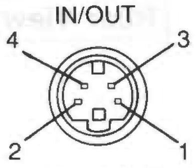
Service Controls
(Technician Use Only)

AC Inlet
(120V 60Hz)

※Connect The AC Power Cord
(Accessory)

① **S-Video Input/Output Terminal (4 pin)** Luminance signal and chroma signal input/output terminal

Pin No.	Function	Pin NO.	Function
1	GND (Luminance)	3	Luminance
2	GND (Chroma)	4	Chroma



Pin number

② **Video Input/Output Terminals (BNC)**
These terminals have automatic termination.
When BNC connectors are connected into IN and OUT terminals, the 75Ω termination will be automatically opened.

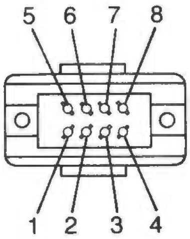
③ **Audio Input/Output Terminals (RCA Phono)**

④ **EXT.SYNC Terminal**
This terminal also has automatic termination.
If a sync signal is input into this terminal, the monitor works to lock the selected line to this external sync signal.

⑤ **Color Temp. Selector**
6500K: Set the color Temp. switch to 6500K for broadcast use.
9300K: Set the color Temp. switch to 9300K to give the color temperature for non-broadcast use.

⑥ **VCR Terminal (8 pin)** VCR video/audio signal input

Pin No.	Function	Pin NO.	Function
1	Audio signal IN	5	GND
2	Video signal IN	6	GND
3	GND	7	GND
4	———	8	———

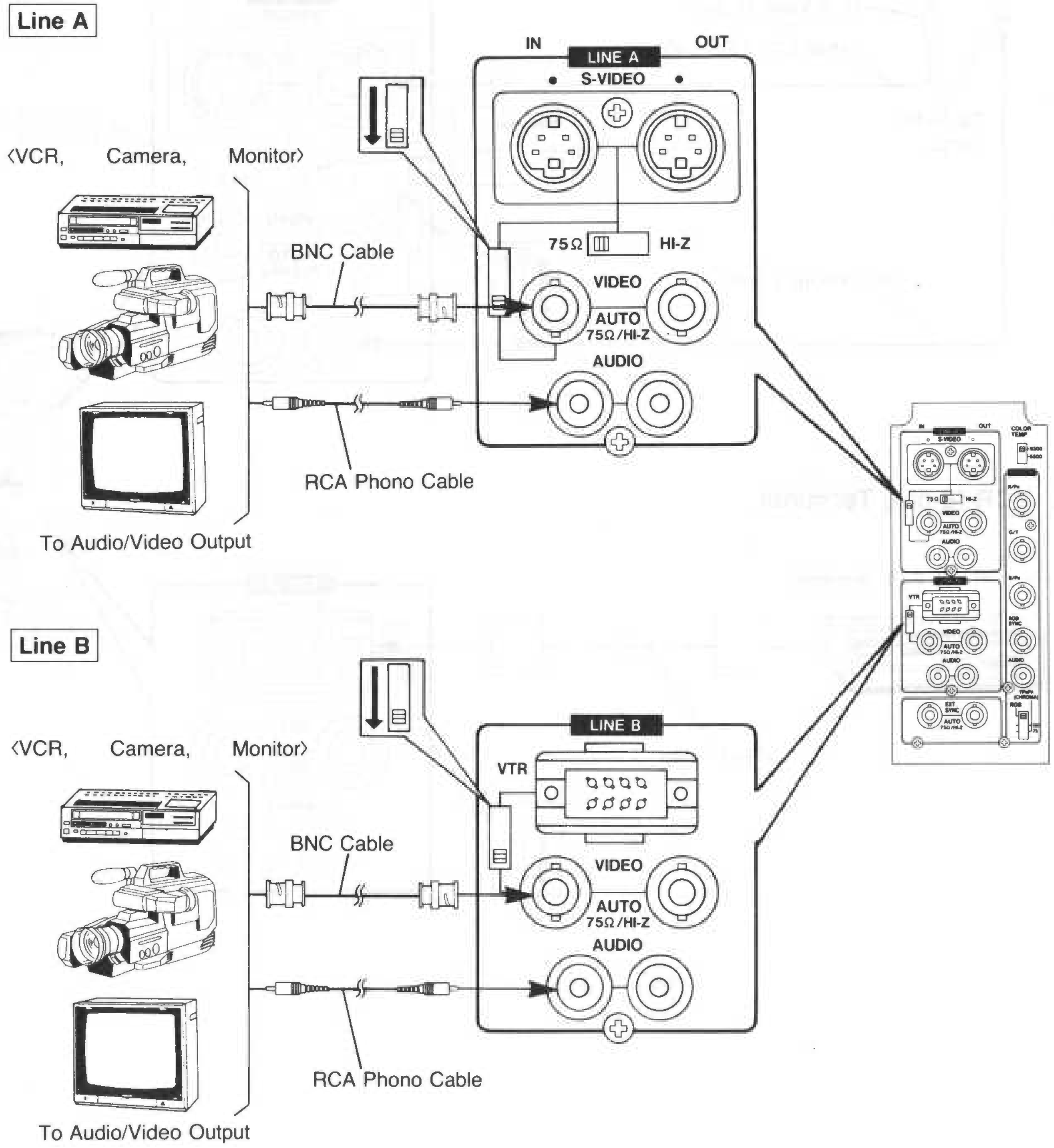


Pin number

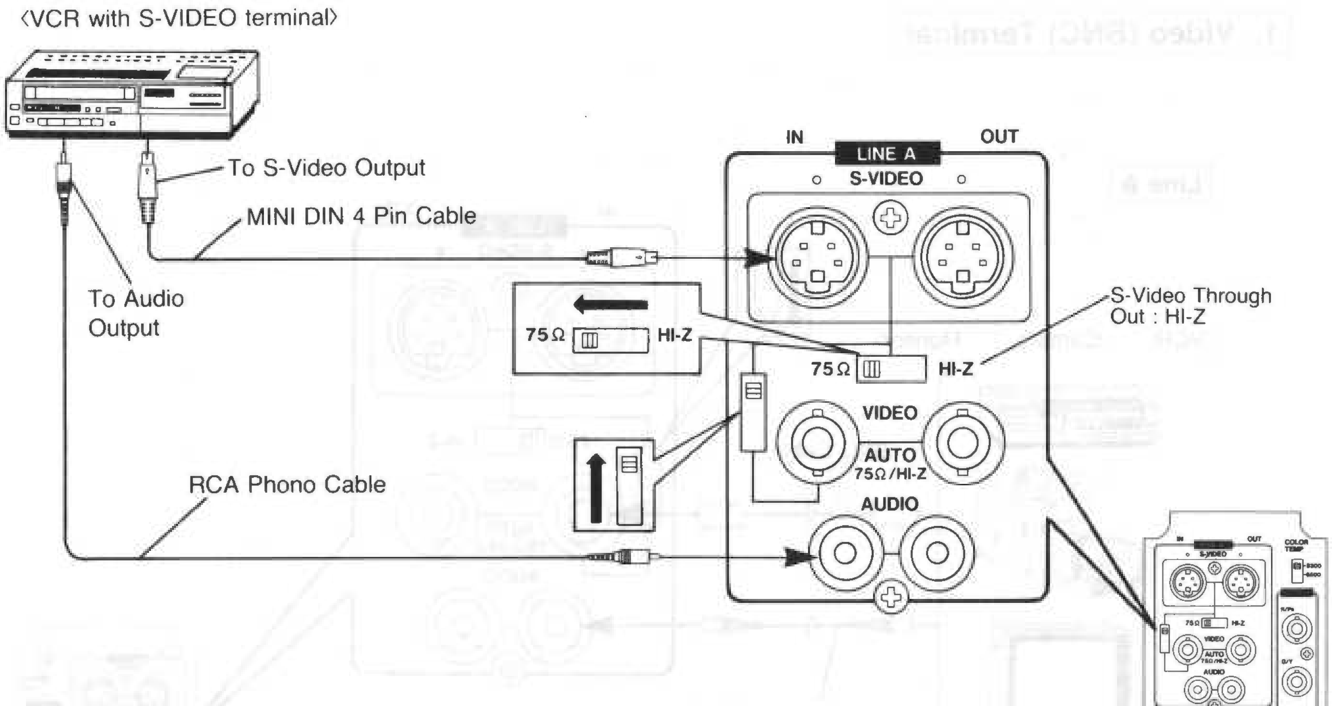
⑦ **Chromatic level Switch**
This switch is for setting chromatic level to the connected signal, when the component signal (YP_BP_R) is connected to the RGB / YP_BP_R terminals.
Position RGB: RGB signal only.
Position 100 : YP_BP_R for use with (MⅡ) 100% color bar standard system.
Position 75 : YP_BP_R for use with 75% color bar standard system.

Connections

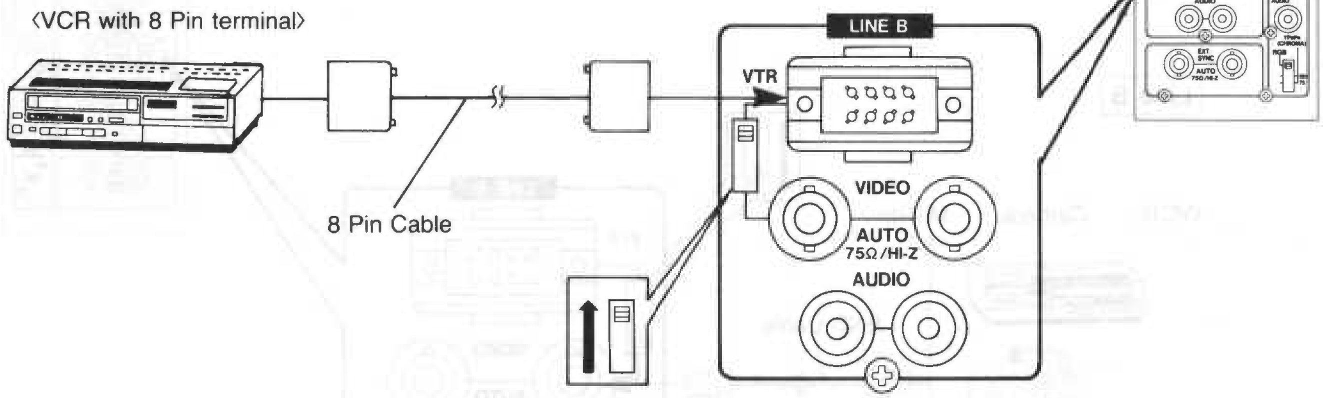
1. Video (BNC) Terminal



2. S-Video Terminal

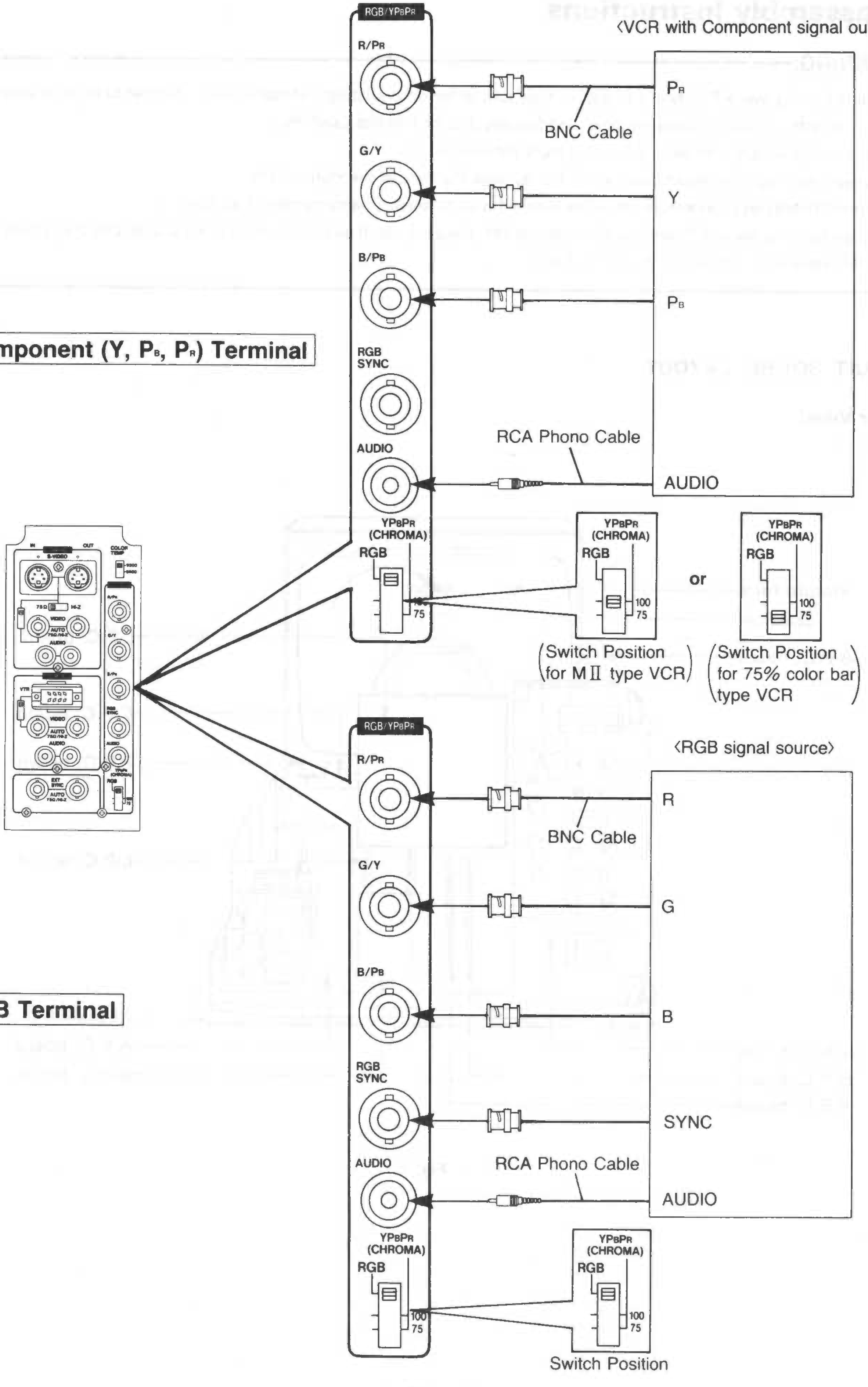


3. VCR (8 pin) Terminal



4. Component (Y, P_B, P_R) Terminal

5. RGB Terminal



Disassembly Instructions

WARNING:

1. When turning over a P.C. board to adjust it, be sure to lay on insulating material under it in order to prevent shorting.
2. P.C. boards and wires should not be pulled forcibly, but be handled carefully.
3. Before disassembly, remove the AC plug from the wall outlet.
4. When removing the cabinet take care not to damage the neck of the Picture Tube.
5. Printed boards and connectors should be handled with care-aviod handling them forcibly!
6. When handling the A-P.C. board with the power ON, there is a risk of an Electric shock if you use the COLD side heat sink while working on the HOT side of the chassis.

CIRCUIT BOARD LAYOUT

(Rear View)

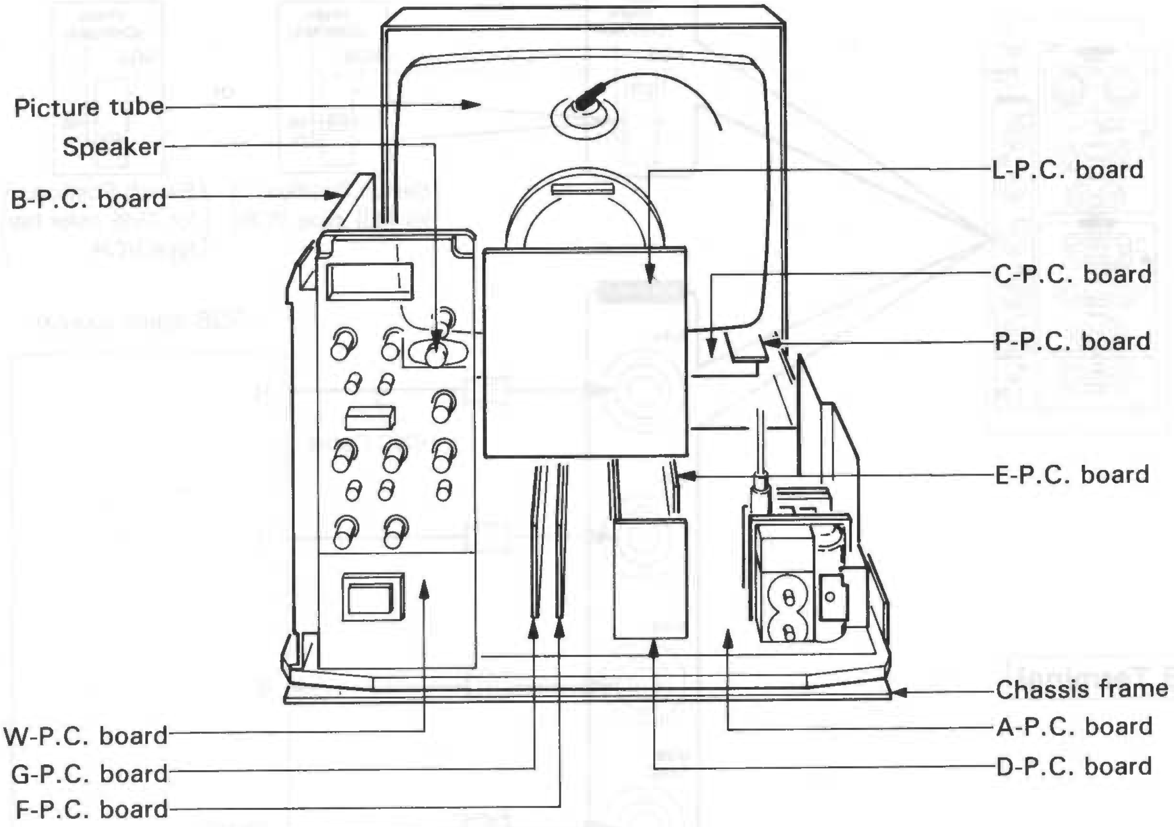
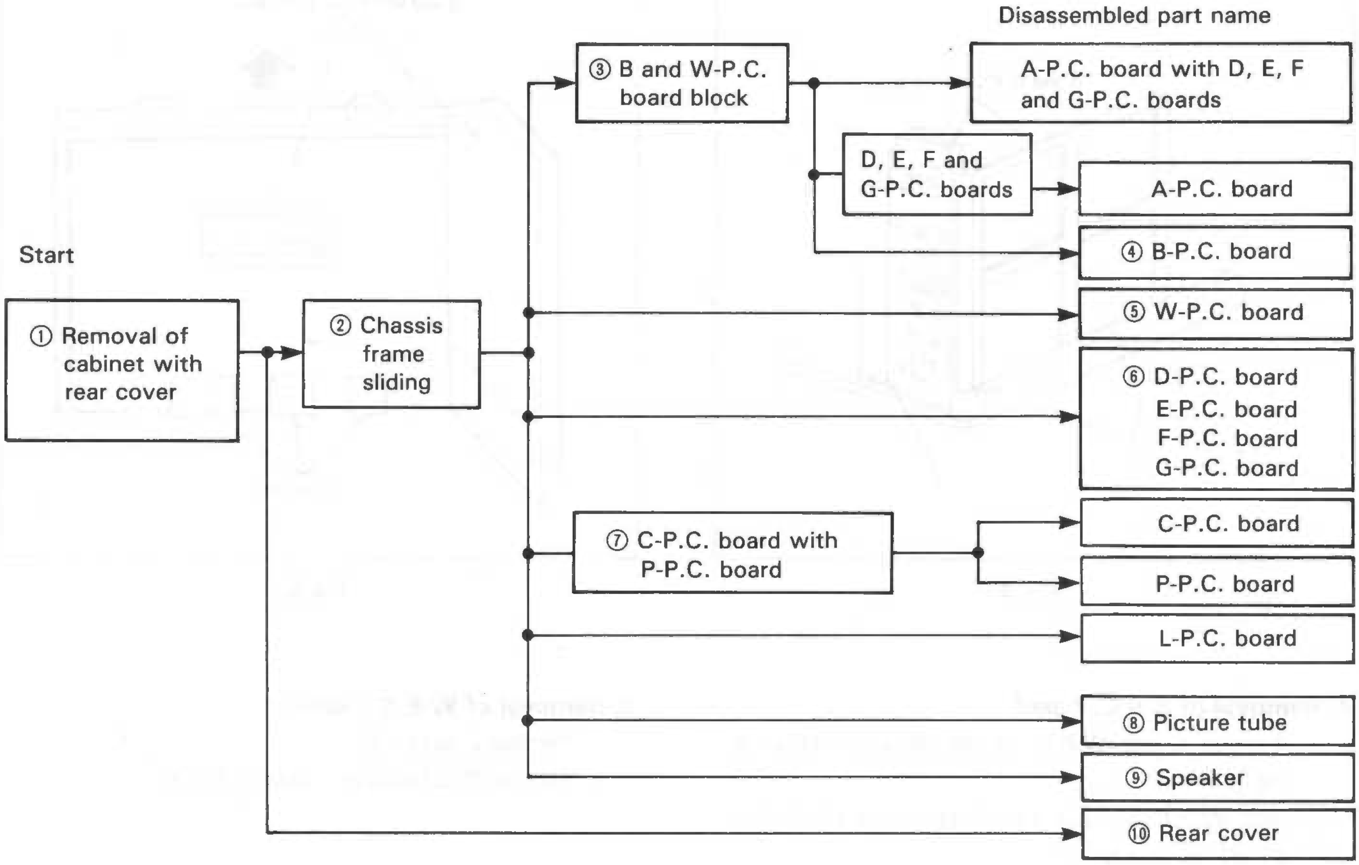


Fig. 1

DISASSEMBLY FLOWCHART

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing.

When reassembling, perform the steps in the reverse order.



1. Removal of Cabinet with Rear Cover

1. Remove 4 screws Ⓐ.
2. Remove 5 screws Ⓑ.

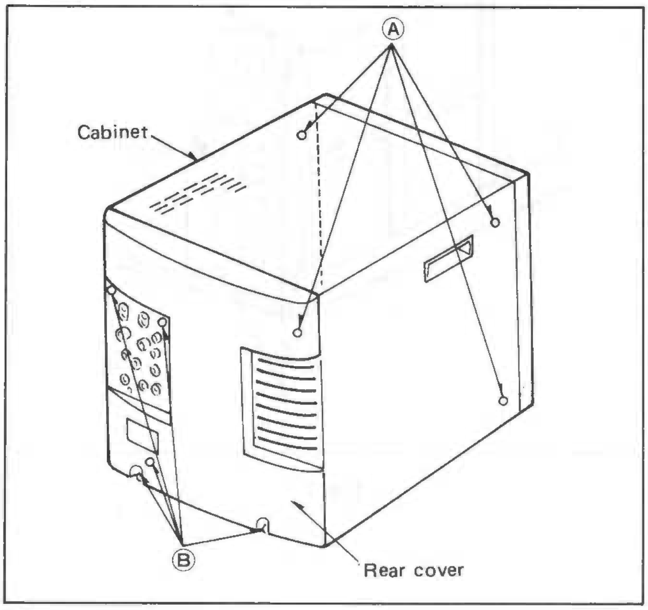


Fig. 2

2. Chassis frame sliding

Slide the chassis frame as shown.

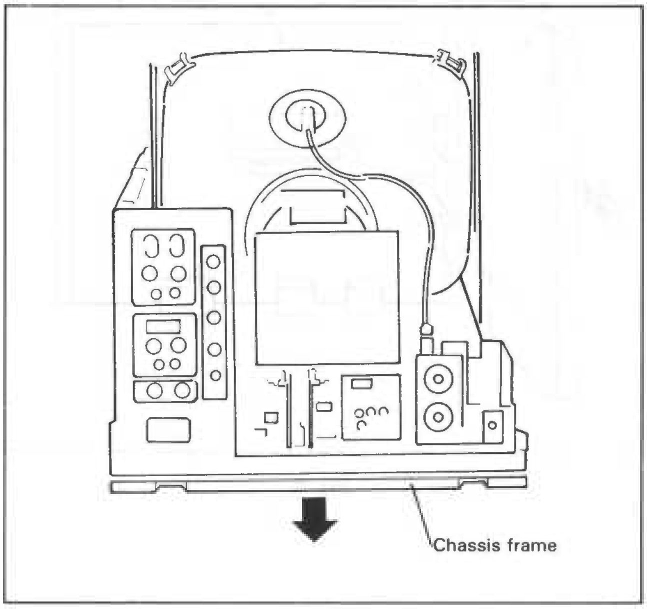


Fig. 3

3. Removal of B and W-P.C. board block

1. Remove 3 screws Ⓒ.
2. Remove B and W-P.C. boards block while pulling out the connectors.

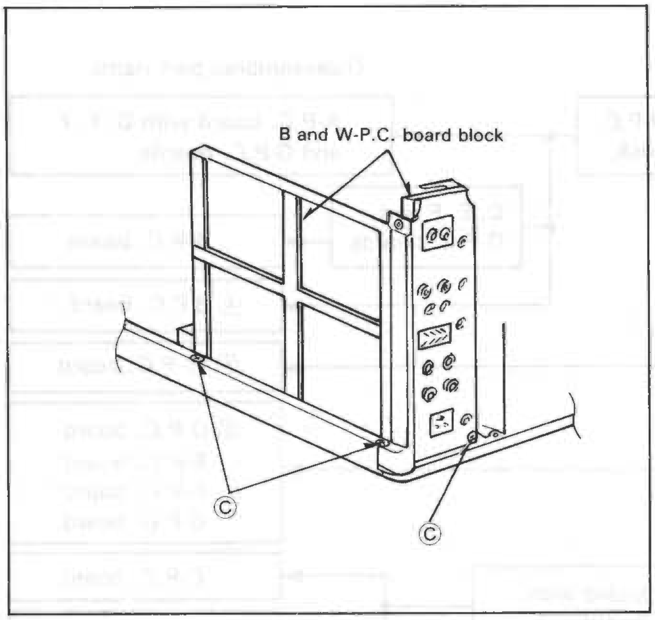


Fig. 4

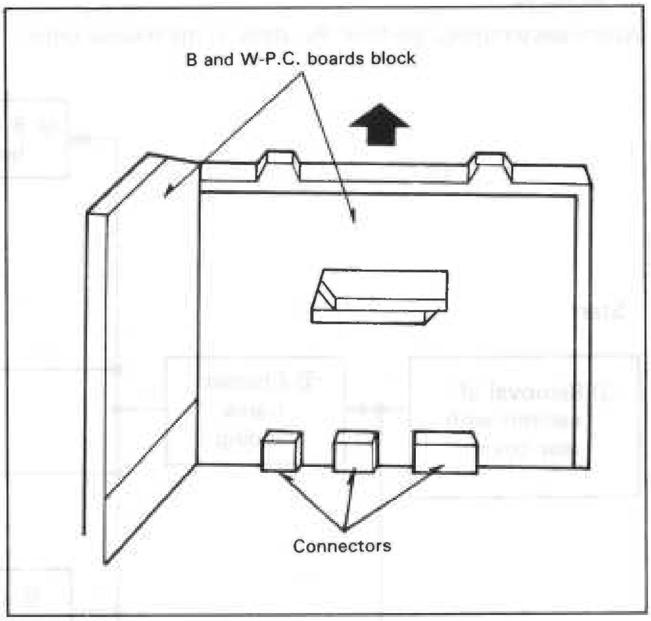


Fig. 5

4. Removal of B-P.C. board

1. Remove B and W-P.C. boards block as shown in Fig. 4 and 5.
2. Slide W-P.C. board while pulling out the connectors B1, B2, B3 and B4.

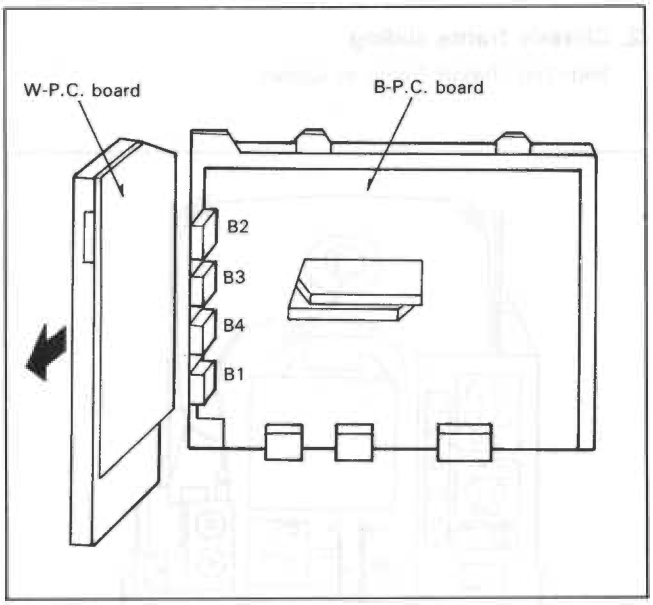


Fig. 6

5. Removal of W-P.C. board

1. Remove 3 screws Ⓓ.
2. Slide W-P.C. board as shown in Fig. 6.

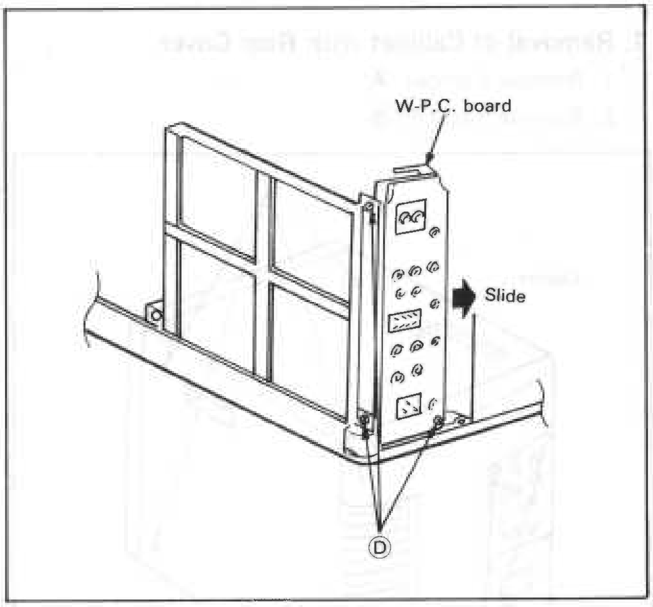


Fig. 7

6. Removal and check of D, E, F and G-P.C. boards

1. Pull out the connectors of the each P.C. board (A26, A27, A29, A33, A14, A15, A16, A23 and A24 on the A-P.C. board).

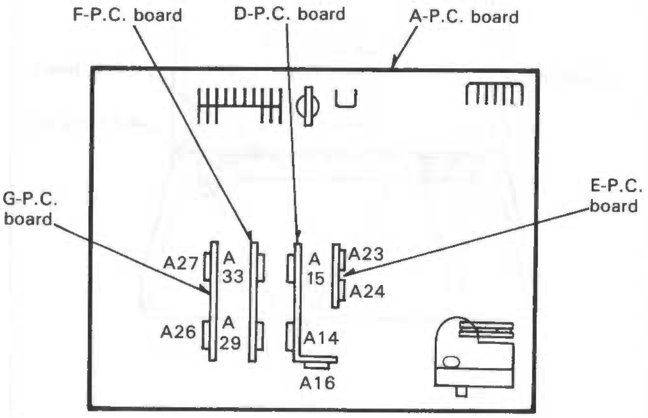


Fig. 8

∗ When each connector is removed open the hook by small flat screwdriver.

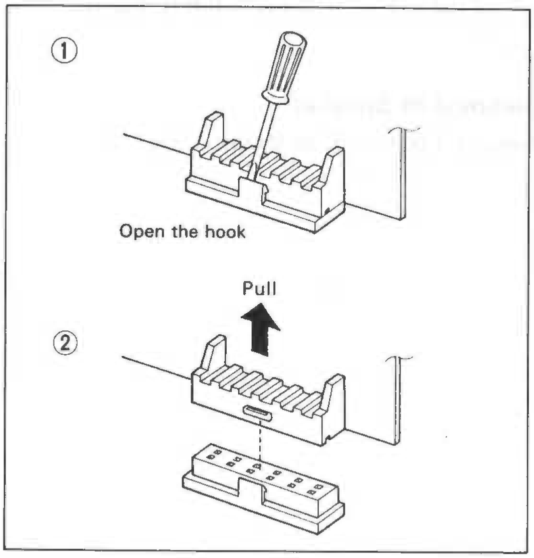


Fig. 9

2. Use the extension cable when each P.C. board is checked because those P.C. boards have no space mutually.

Necessary extension cables are as following table.

Ref. No.	Kind of extension cables	Part No.	Q'ty	
Ⓐ	4 Pin	TZS507027	2pcs.	Length is about 12".
Ⓑ	6 Pin	TZS507028	1pc.	
Ⓒ	9 Pin	TZS507029	2pcs.	
Ⓓ	10 Pin	TZS507030	4pcs.	

3. Connect each P.C. board by extension cables as shown.

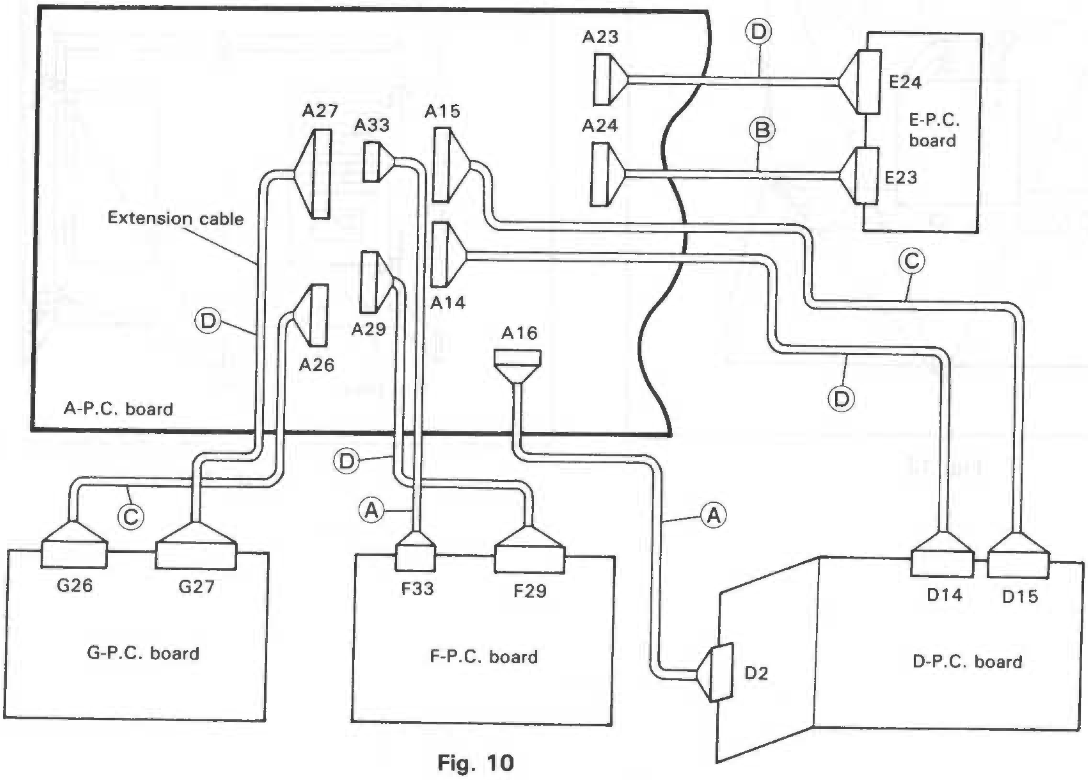


Fig. 10

7. Removal of C-P.C. board with P-P.C. board

1. Pull out 8 control knobs on the front side.
2. Remove 2 screws Ⓔ.
3. Pull out C-P.C. board with P-P.C. board.

8. Removal of Speaker

Remove 4 screws Ⓕ as shown in Fig. 11.

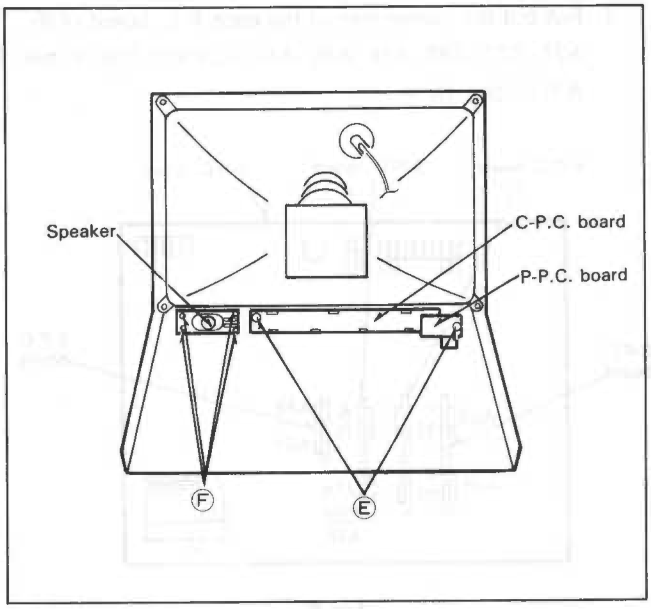


Fig. 11

9. Removal of Picture Tube

1. Remvoe L-P.C. board and the deflection yoke.
2. Remove 4 screws Ⓖ.

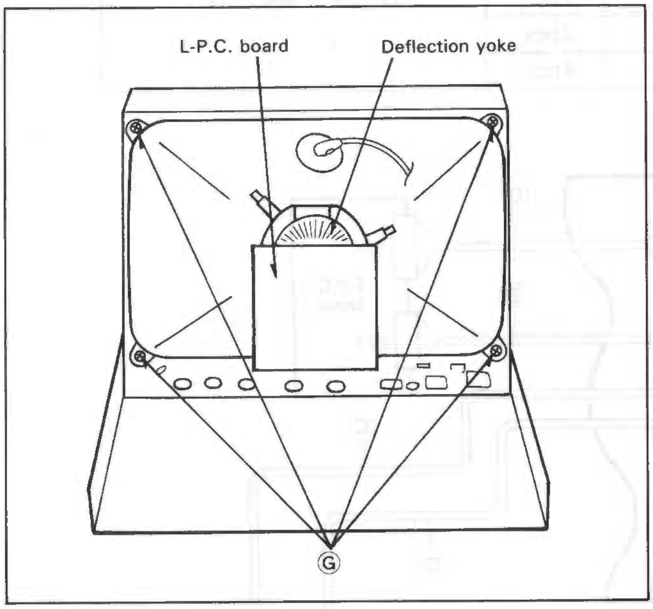


Fig. 12

10. Removal of Rear Cover

Remove inner 5 screws Ⓗ.

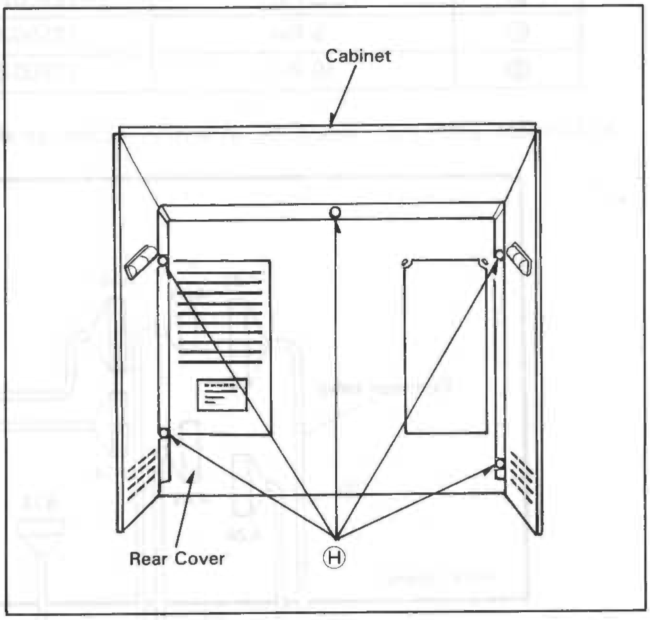


Fig. 13

Measurements and Adjustments

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FOCUS ADJUSTMENT 34
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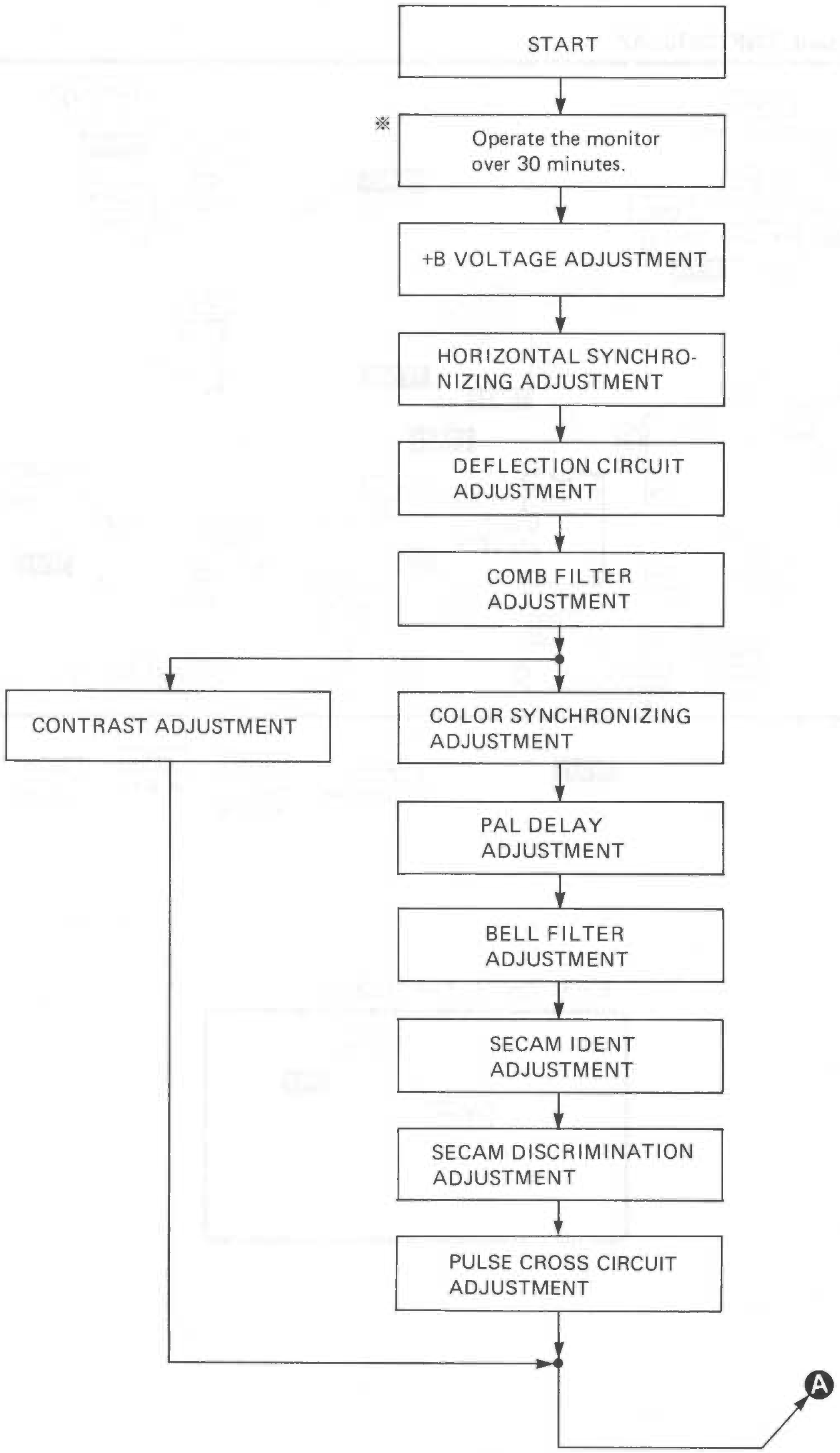
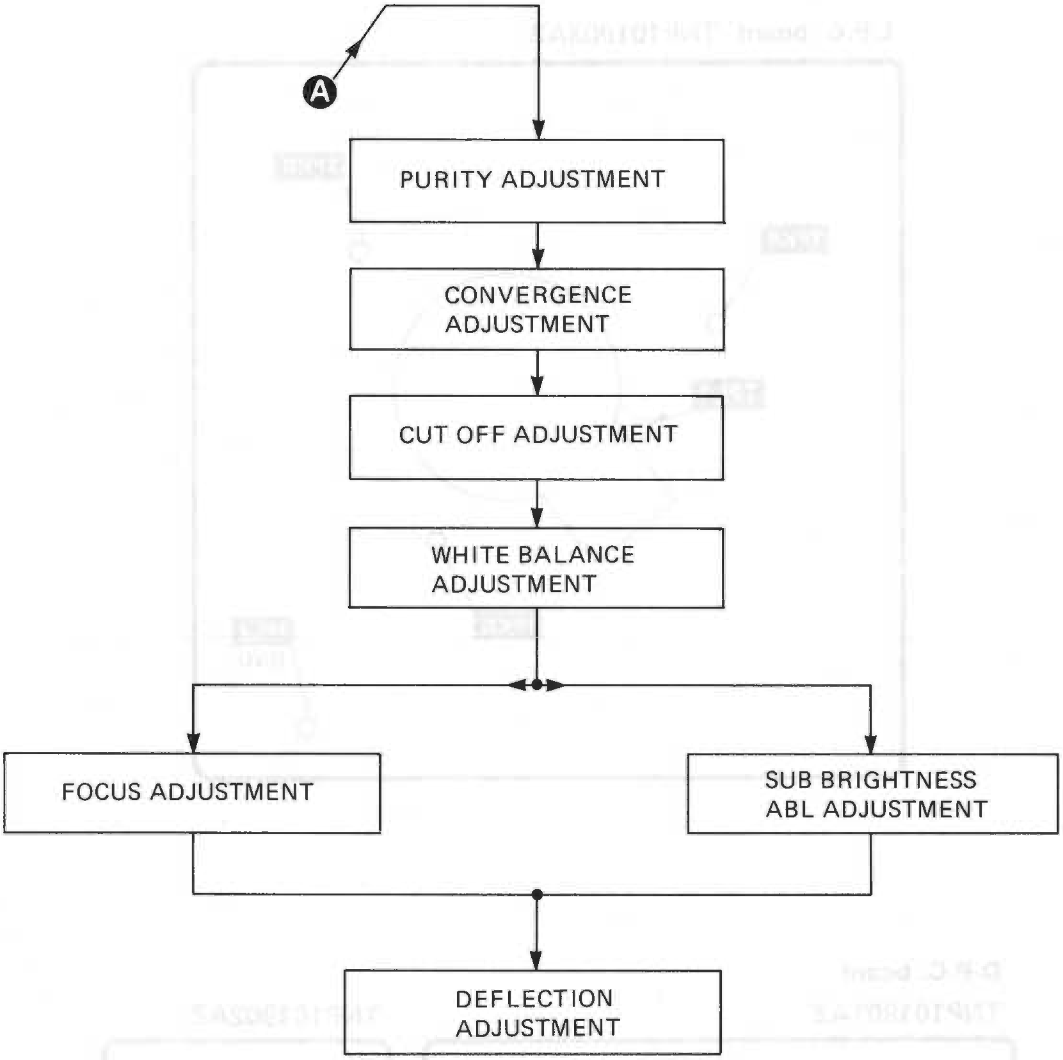
※ NOTE: Before measuring and adjusting, operate the monitor over 30 minutes.

ADJUSTMENT PROCEDURE FLOWCHART



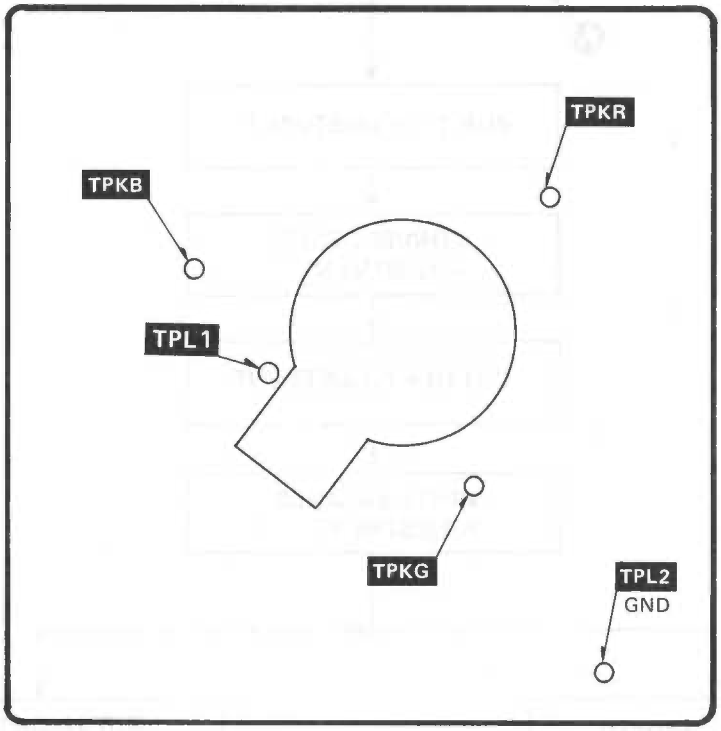
START
※
Operate the monitor over 30 minutes.
+B VOLTAGE ADJUSTMENT
HORIZONTAL SYNCHRONIZING ADJUSTMENT
DEFLECTION CIRCUIT ADJUSTMENT
COMB FILTER ADJUSTMENT
CONTRAST ADJUSTMENT
COLOR SYNCHRONIZING ADJUSTMENT
PAL DELAY ADJUSTMENT
BELL FILTER ADJUSTMENT
SECAM IDENT ADJUSTMENT
SECAM DISCRIMINATION ADJUSTMENT
PULSE CROSS CIRCUIT ADJUSTMENT
A


A
PURITY ADJUSTMENT
CONVERGENCE ADJUSTMENT
CUT OFF ADJUSTMENT
WHITE BALANCE ADJUSTMENT
FOCUS ADJUSTMENT
SUB BRIGHTNESS ABL ADJUSTMENT
DEFLECTION ADJUSTMENT

LOCATION OF TEST POINTS AND CONTROLS

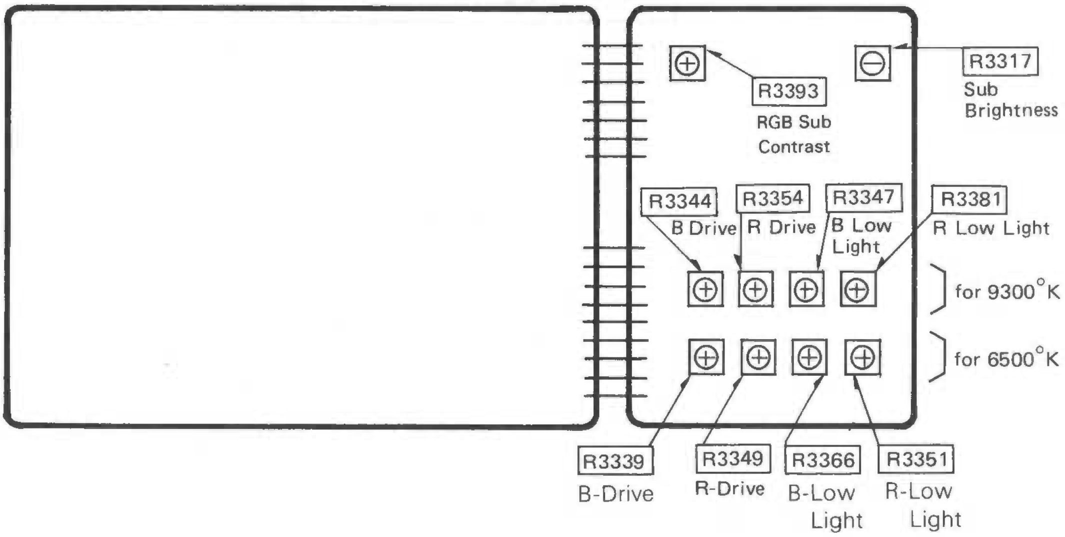
Note: When measuring and adjusting, it is convenient to use these pages.

L-P.C. board TNP101903AB

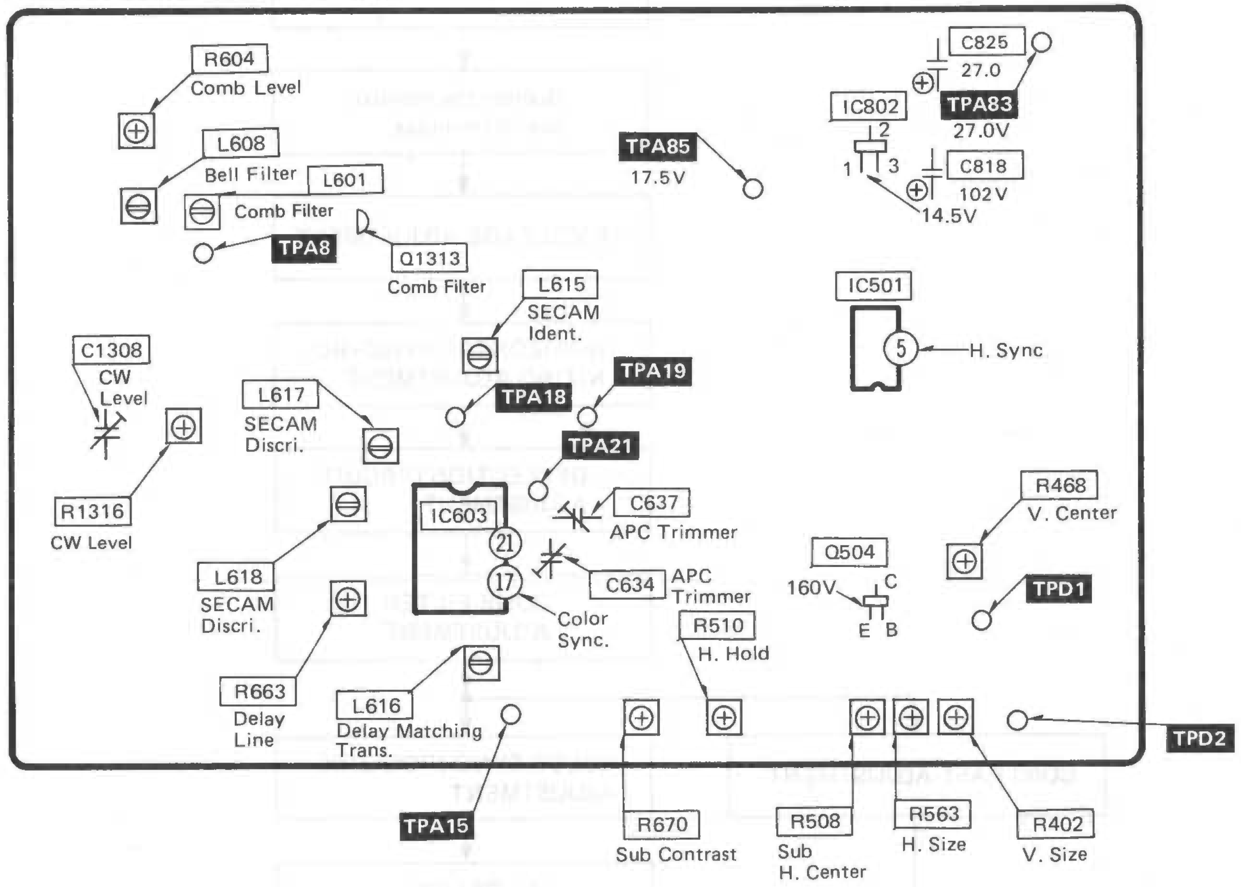


D-P.C. board
TNP101901AZ

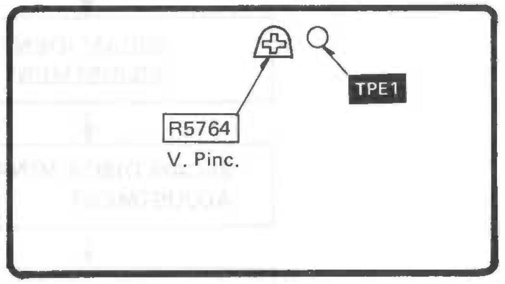
TNP101902AZ



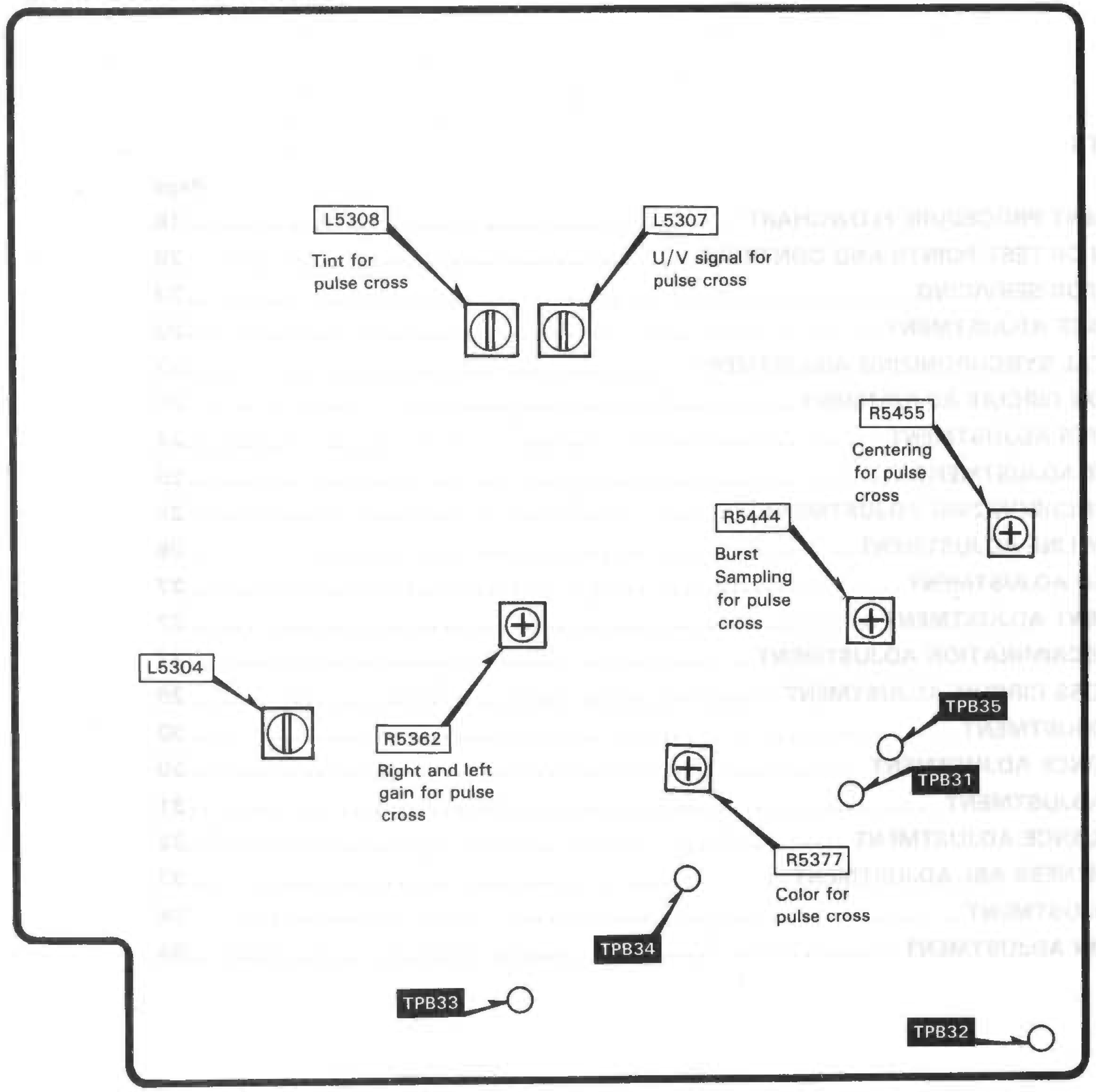
A-P.C. board TNP190103AZ



E-P.C. board TNP110314



B-P.C. board TNP101889


L5308
Tint for pulse cross
L5307
U/V signal for pulse cross
R5455
Centering for pulse cross
R5444
Burst Sampling for pulse cross
L5304
R5362
Right and left gain for pulse cross
R5377
Color for pulse cross
TPB35
TPB31
TPB34
TPB33
TPB32

CAUTION FOR SERVICING

This model has the HOT and COLD section with the power supply section. Therefore following precautions are necessary.

1. Do not touch the HOT section and the COLD section at the same time. You may receive an electric shock.
2. Do not short the HOT section to the COLD section. This could blow the fuse or even damage parts.
3. Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multimeters.
4. Always unplug the unit before beginning any operation such as removing the chassis.

Unless otherwise noted, a transformer core with has two tuning peak points should be adjusted at the lower position as shown in below Fig. 1.

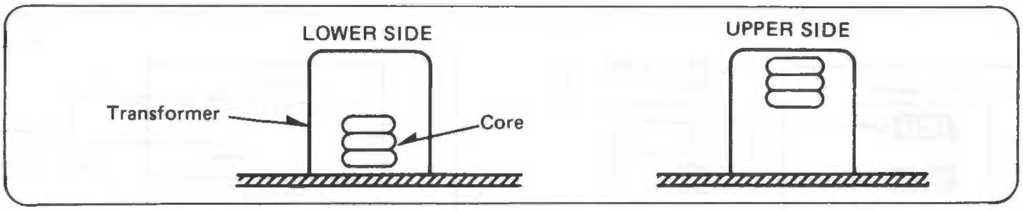


Fig. 1

For each adjustment, when a connector or a short jumper is connected or disconnected, first set the power switch to the OFF position.

+B VOLTAGE ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Digital Voltmeter
Tuner Unit.

2. ADJUSTMENT PROCEDURE

1. Input a Black Level pattern to VIDEO input terminal.
2. Set the Brightness and Contrast control to minimum, and delete the raster.
3. Connect a Digital Voltmeter between each +B points and the ground as follows.
4. Confirm that the indicated measurement points for the specificated voltage.

Measurement Point		**Voltage**
+B2 (C818 ⊕)	H. Sync. Plate (GND)	102V±2.0V
+B1 (Q504 Ⓔ)		160V±10V
+B3 (C825 ⊕)		27.0V±2.0V
+B4 (TPA85)		17.5V±2.0V
+B5 (IC802 ①)		14.5V±1.0V
+B6 (IC802 ③)		12.0V±0.5V

HORIZONTAL SYNCHRONIZING ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Short Jumper

2. ADJUSTMENT PROCEDURE

1. Input a Monoscope pattern to VIDEO input terminal.
2. Connect a short jumper between IC501 ⑤ and 12V line.
3. Adjust R510 (H. Hold) so that the Picture stabilizes.

DEFLECTION CIRCUIT ADJUSTMENT (A/D-P.C. Board)

1. EQUIPMENT TO USED

High Voltmeter
DC Current Meter
AC-RMS voltmeter

2. ADJUSTMENT PROCEDURE

1. Input a Monoscope pattern to VIDEO input terminal.
2. Conenct a ⊕ side of DC Current Meter to **TPD1** and ⊖ side of DC Current Meter to **TPD2**.
3. Adjust R3317 (Sub Brightness) or R670 (Sub Contrast) so that the value of DC Current Meter is 400μA.

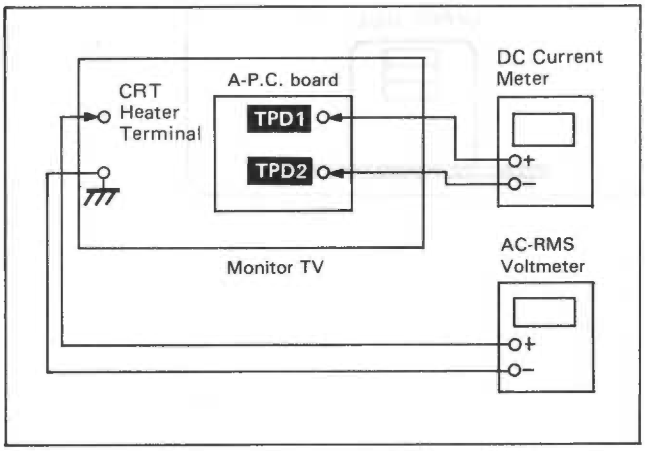


Fig. 2

4. Connect a AC-RMS voltmeter to CRT Heater terminal.
5. Confirm that the value is 6.15 ± 0.24Vrms.
6. Input a Black Level pattern to VIDEO input terminal.
7. Set the R3317 (Sub Brightness) and R670 (Sub Contrast) to minimum, and delete the raster.
8. Connect a High Voltmeter to anode of CRT.

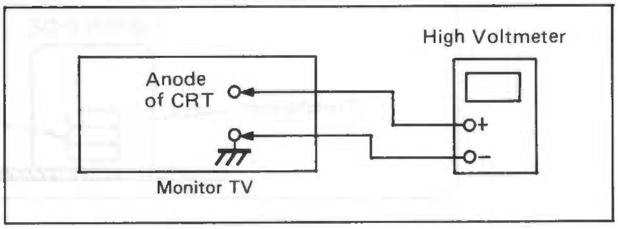


Fig. 3

9. Confirm that the value is 24.0±1kV.

COMB FILTER ADJUSTMENT (A-P.C. Board)

1. EQUIPMENT TO USED

Oscilloscope
Video Generator

2. INITIALIZE CONDITION

Input Selector Switches . . . . LINE A
TV System Selector Switch . . . . NTSC 3.58
Felter Selector Switch . . . . OFF

3. ADJUSTMENT PROCEDURE

1. Input a Color Bar signal to VIDEO input terminal.
2. Connect an Oscilloscope to **TPA8**.

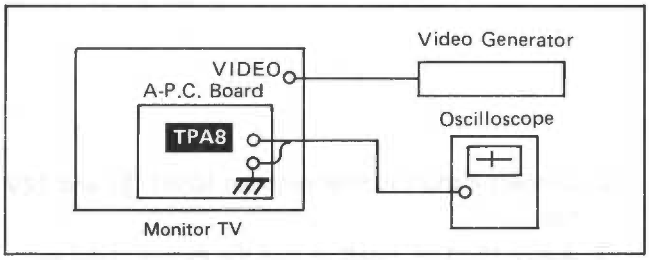


Fig. 4

3. Adjust R604 (Comb Level) and L601 to set 3.58MHz sub carrier at the minimum amplitude.
4. Confirm that 3.58 MHz sub carrier portion of the magenta is less than 50mVp-p as shown in Fig. 5.

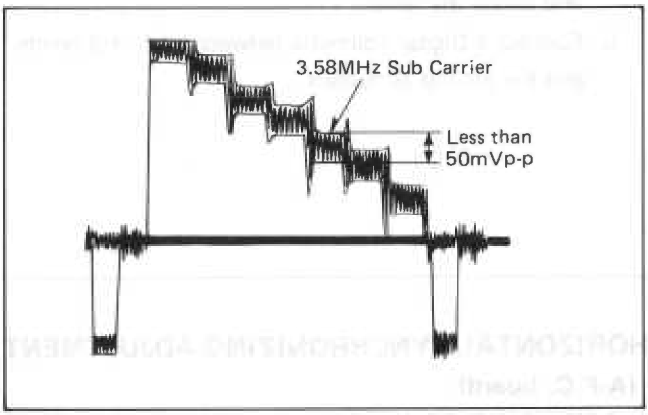


Fig. 5

5. If the amplitude is more than 50mVp-p repeat the adjustments described in step 3 through 4.

6. Disconnect an oscilloscope from **TPA8** and connect an oscilloscope to emitter of Q1313.

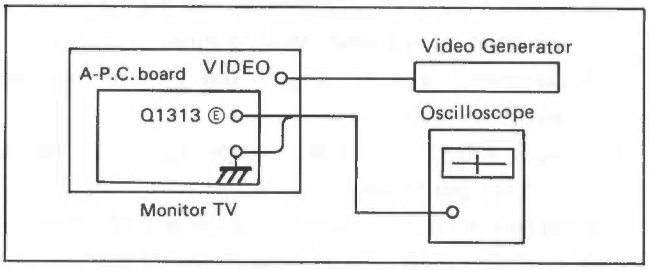


Fig. 6

7. Adjust R1316 (CW Level) and C1308 to set 3.58 MHz sub carrier at the minimum amplitude.
8. Confirm that 3.58 MHz sub carrier portion of the magenta is less than 100mVp-p as shown in Fig. 7.

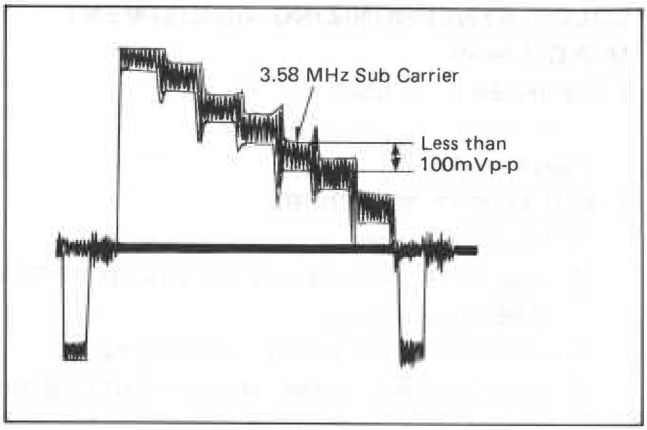


Fig. 7

9. If the amplitude is more than 100mVp-p repeat the adjustments described in step 7 through 8.

CONTRAST ADJUSTMENT (A/D/L-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope
Video Generator
RGB Signal Generator

2. INITIALIZE CONDITION

Contrast Control .... Max.
RGB Contrast Control.......................... Max.
Brightness Control .... Center

3. ADJUSTMENT PROCEDURE

1. Set the Input Selector Switches to LINE A.
2. Input a Cross Hatch pattern signal to VIDEO input terminal.
3. Connect an Oscilloscope to emitter of Q1313.

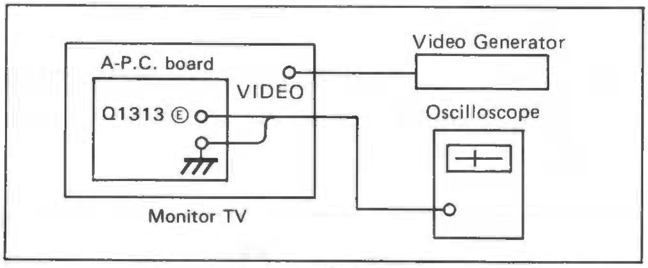


Fig. 8

4. Confirm that the A is 0V at emitter of Q1313.

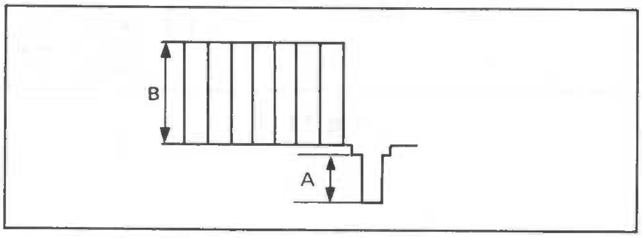


Fig. 9

5. Disconnect an Oscilloscope from emitter of Q1313 and connect an Oscilloscope to **TPKG** and **TPL2**.

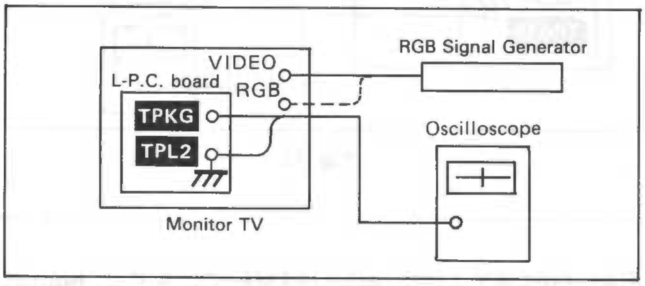


Fig. 10

6. Adjust R670 (Sub Contrast) so that the C is 50Vp-p at **TPKG** as shown in Fig. 11.

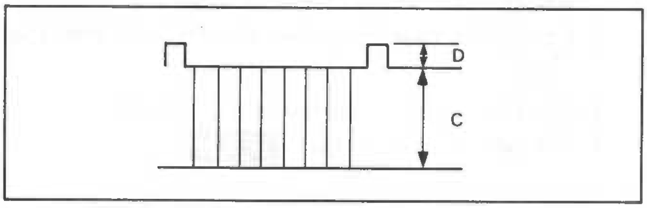


Fig. 11

7. Set the Input Selector switches to RGB.
8. Input a Cross Hatch pattern signal (fH = 15.75 kHz) to RGB inputs terminal.
9. Adjust R3393 (RGB Sub Contrast) so that the C is 50Vp-p at **TPKG** as shown in Fig. 11.

Note: Be sure to D is 30±10Vp-p.
If the D is not 30±10Vp-p, adjust R3317 (Sub Brightness).

10. Set the picture to first lightup color (glimmer) by R3317 (Sub Brightness).

COLOR SYNCHRONIZING ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope Short Jumper
Video Generator

2. ADJUSTMENT PROCEDURE

1. Set the Input Selector switches to LINE A.
2. Input a PAL Color Bar pattern signal to LINE A VIDEO input terminal.
3. Set the TV System Selector switch to PAL.
4. Connect a short jumper between IC603 ⑰ and Ground.
5. Connect an Oscilloscope to **TPA19**.

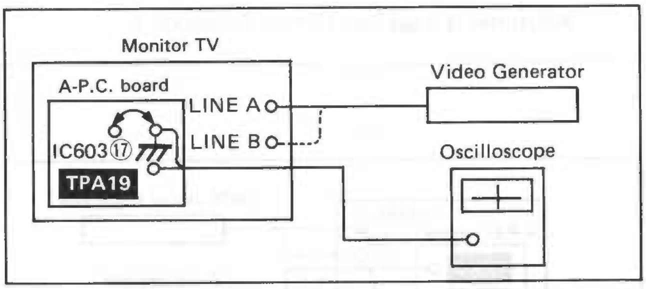


Fig. 12

6. Adjust C637 (APC Trimmer) so that the waveform is stabilized, or in a slowly moving state.
7. Disconnect a short jumper, and confirm that the waveform is stable.
8. Input a NTSC Color Bar pattern signal to LINE A VIDEO input terminal.
9. Set the TV System Selector switch to NTSC 3.58.
10. Connect a short jumper between IC603 ⑰ and Ground.
11. Adjust C634 (APC Trimmer) so that the waveform is stabilized, or in a slowly moving state.
12. Disconnect the short jumper, and confirm that the waveform is stable.
13. Set the TV System Selector switch to AUTO.
14. Input a PAL Color Bar pattern signal to LINE A and NTSC Color Bar pattern signal to LINE B terminal.
15. Confirm that the color is put on without delay when the signal is switched over from LINE A to LINE B.

PAL DELAY LINE ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope
Video Generator

2. ADJUSTMENT PROCEDURE

1. Set the Input Selector switches to LINE A.
2. Input a PAL Color Bar pattern signal to VIDEO input terminal.
3. Set the TV System Selector switch to PAL.
4. Connect an Oscilloscope to **TPA19**.

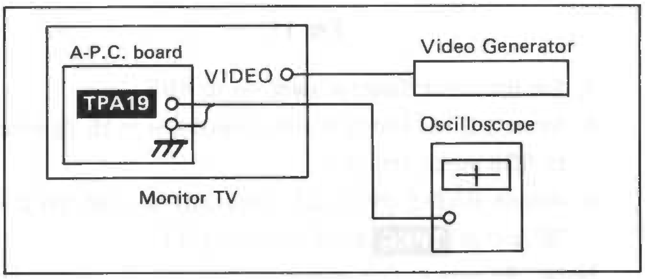


Fig. 13

5. Adjust L616 (Delay Matching Trans.) and R663 (Delay Line Adj.) to achieve waveform shown in Fig. 14.

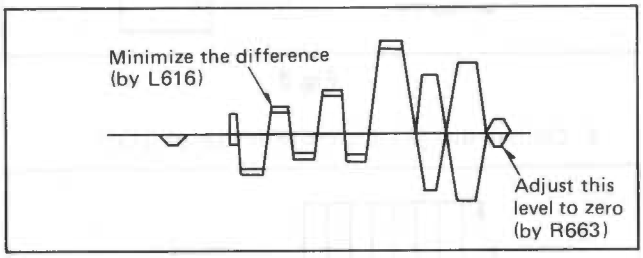


Fig. 14

BELL FILTER ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope
10kΩ Resistor
Video Generator

2. ADJUSTMENT PROCEDURE

1. Set the Input Selector switches to LINE A.
2. Set the TV System Selector switch to SECAM.
3. Input a SECAM Color Bar pattern signal to VIDEO input terminal.
4. Connect an Oscilloscope to **TPA15** via 10kΩ resistor.

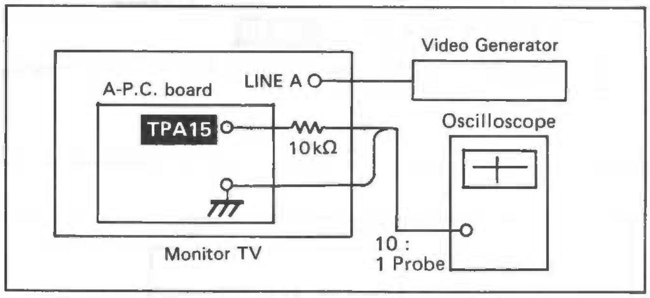


Fig. 15

5. Make even the amplitude of B and R of chrominance of color bar by L608 (Bell Filter) as shown in Fig. 16.

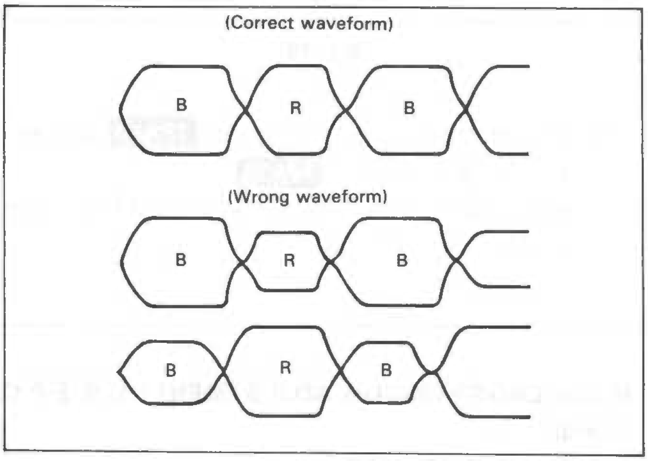


Fig. 16

SECAM IDENT ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope
Video Generator
10kΩ Resistor

2. ADJUSTMENT PROCEDURE

1. Set the Input Selector switches to LINE A.
2. Input a SECAM Color Bar pattern signal to VIDEO input terminal.
3. Set the TV System Selector switch to SECAM.
4. Connect an Oscilloscope IC603 ㉑ via 10kΩ resistor.

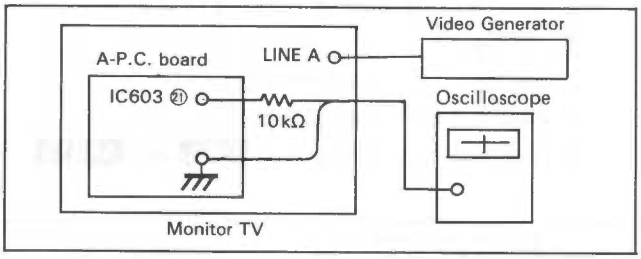


Fig. 17

5. Adjust L615 (SECAM Ident) so that the voltage is maximum.

SECAM DISCRIMINATION ADJUSTMENT (A-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope.
Video Generator

2. ADJUSTMENT PROCEDURE

1. Set the Input Selector switches to LINE A.
2. Set the TV System Selector switch to SECAM.
3. Input a SECAM Color Bar pattern signal to VIDEO input terminal.
4. Connect an Oscilloscope to **TPA19**.

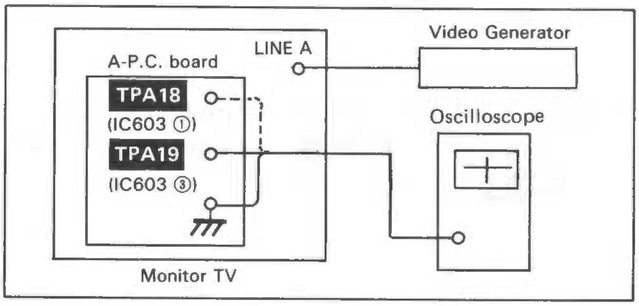


Fig. 18

5. Adjust L617 (SECAM Discrimination) so that the levels A, B and C are same level as shown in Fig. 19.

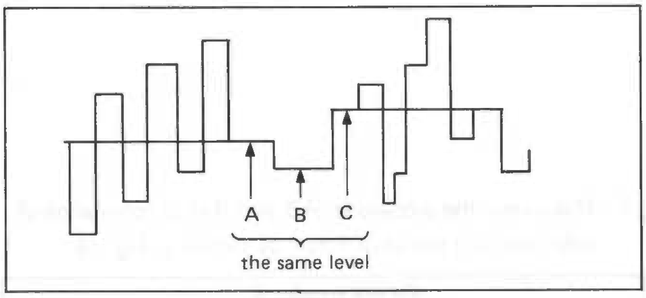


Fig. 19

6. Disconnect an Oscilloscope from TPA19 and connect an Oscilloscope to TPA18.
7. Adjust L618 so that the levels D, E and F are same level as shown in Fig. 20.

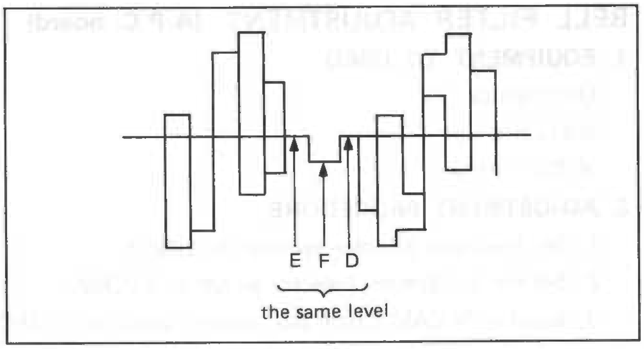


Fig. 20

8. Disconnect an Oscilloscope from TPA18 and connect an Oscilloscope to TPA19.
9. Confirm that the levels A and C are same level as shown in Fig. 19.

PULSE CROSS CIRCUIT ADJUSTMENT (A/B/E-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope

Video Generator (NTSC and PAL/SECAM)

2. ADJUSTMENT PROCEDURE

1. Set the Input Selector switches to LINE A.
2. Set the TV System Selector switch to NTSC.
3. Set the H/V Delay Switch ⊞ to ON.
4. Input a Red Signal to LINE A terminal.
5. Connect an Oscilloscope to TPE1 and TPA15.

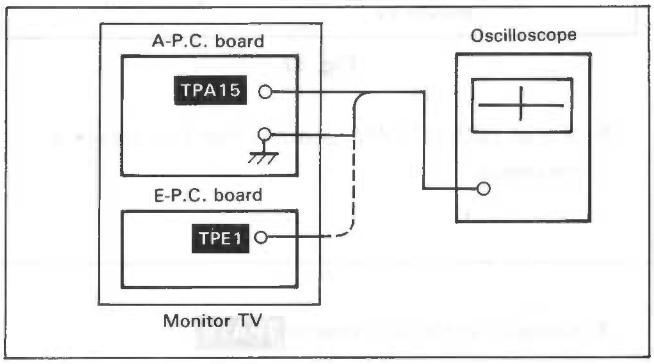


Fig. 21

6. Adjust R5444 (Burst sampling for pulse cross) so that the false burst for TPA15 enter within clamp pulse of TPE1 as shown in Fig. 22.

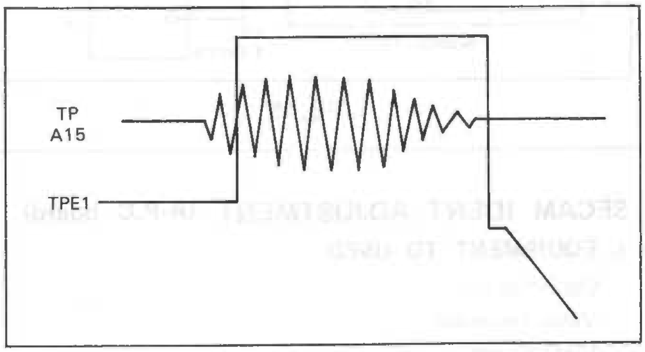


Fig. 22

7. Set the H/V Delay Switch ⊞ to OFF.
8. Input a SMPTE signal to LINE A terminal.
9. Set the Blue Signal Only Switch to ON.
10. Adjust Chroma Control so that the Contrast for ① and ②, and for ③ and ④ is the same as shown in Fig. 25.

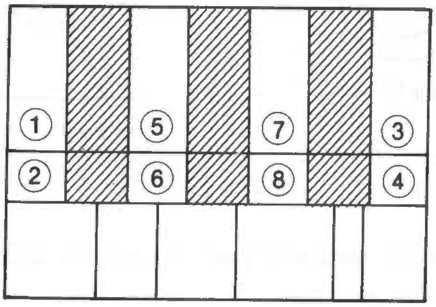


Fig. 25

11. Adjust Phase Control so that the Contrast for ⑤ and ⑥. and for ⑦ and ⑧ is the same as shown in Fig. 25.

Note: After adjusted Chroma and Phase controls on step 12 and 13, don't turn Chroma and Phase controls step 17 completed.

12. Set the H/V Delay Switch ⊞ to ON.

Note: When ①, ② and ③, ④ disappear by overscan, press the Under Scan Switch ⊡ .
Move the picture up and down by R5455 (Centering for pulse cross).

13. Adjust L5308 (Tint for pulse cross) so that the Contrast for ① and ② is the same as shown in Fig. 26.

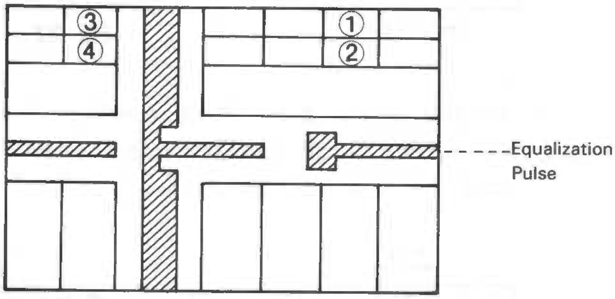


Fig. 26

14. Adjust R5377 (Color for pulse cross) so that the Contrast for ③ and ④ is the same as shown in Fig. 26.
15. Switching the H/V Delay Switch ⊞ to ON/OFF, confirm the adjustment for step 12 and 13 is right.
16. Set the H/V Delay switch ⊞ to OFF.
17. Set the Input Selector switches to LINE B.
18. Set the TV System Selector switch to PAL.
19. Set the Blue Signal Only Switch to OFF.
20. Input a PAL Color Bar Signal to LINE B terminal.
21. Memory the this level for ⓐ and ⓑ (about colorless) as shown in Fig. 27.

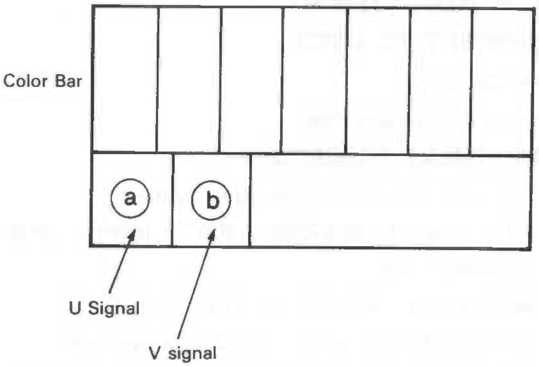


Fig. 27

22. Set the H/V Delay Switch ⊞ to ON.
23. Turn L5307 (U/V signal for pulse cross) so that the level for ⓒ and ⓓ is the same to level for ⓐ and ⓑ (about colorless) as shown in Fig. 27 and 28.

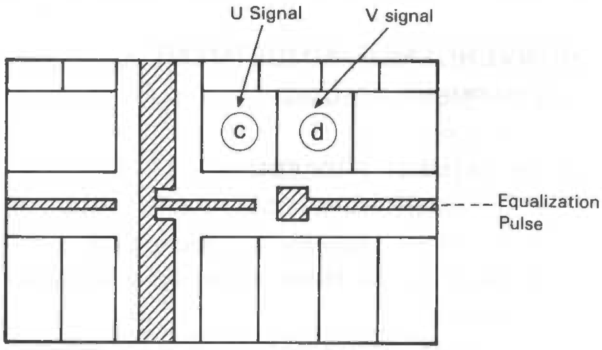


Fig. 28

24. Input a NTSC Monoscope Pattern to LINE A terminal.
25. Set the H/V Delay Switch to ON.
26. Adjust R5455 (Centering for pulse cross) so that the equalization pulse is center to vertical direction.
27. Input a PAL, SECAM, NTSC color bars.
28. Confirm the normal and H/V Delay pictures monitor rightly.

PURITY ADJUSTMENT

1. EQUIPMENT TO USED

Video Generator

External Degaussing Coil

2. ADJUSTMENT PROCEDURE

1. Operate the monitor over 30 minutes.
2. Fully degauss the picture tube by using an external degaussing Coil.
3. Set the Input Selector Switches to LINE A.
4. Input a video signal to VIDEO input terminal.
5. Adjust roughly convergence by using the static and convergence magnets and deflection yoke.
6. Input a black and white signal to VIDEO input terminal.
7. Loosen clamp screw of the deflection yoke.
8. Slide the deflection yoke toward the picture tube.
9. Adjust the purity magnets so that red circle is obtained at the center of the picture.

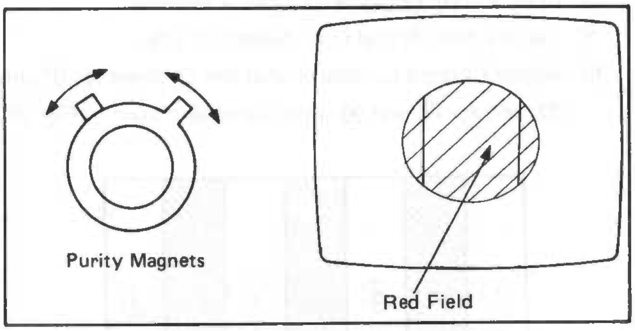


Fig. 29

10. Slide the deflection yoke toward you so that good purity is obtained.
11. Confirm the purity with a green and a blue screen.
12. Emit the Red, Green and Blue at the same time.
13. Confirm the white quality.
14. Tighten clamp screw when complete.

CONVERGENCE ADJUSTMENT

1. EQUIPMENT TO USED

Video Generator.

2. ADJUSTMENT PROCEDURE

1. Operate the monitor 30 minutes.
2. Set the Input Selector Switches to LINE.
3. Input a Cross Hatch patten signal to VIDEO input terminal.
4. Match the R and B at picture center with four pole magnet.
   (Rotate the two ring magnets to move the red and blue dots Circularly in the opposite derection).
5. At the picture center, match R and B to G with the six-pole magnet.

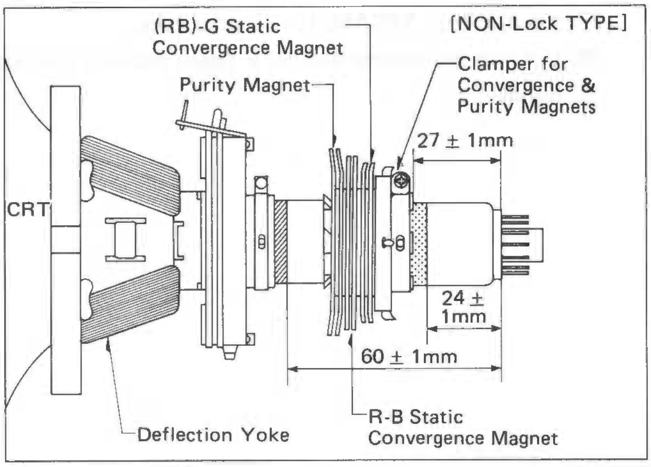

(RB)-G Static Convergence Magnet
[NON-Lock TYPE]
Purity Magnet
Clamper for Convergence & Purity Magnets
27 ± 1mm
CRT
24 ± 1mm
60 ± 1mm
Deflection Yoke
R-B Static Convergence Magnet

Fig. 30

6. Tilt the DY up and down, match the R and B for H line of center. (Fig. 31)
7. Tilt the DY left and right, match the R and B for H line of up and down side and V line of left and right side. (Fig. 32)

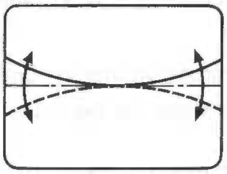


Fig. 31

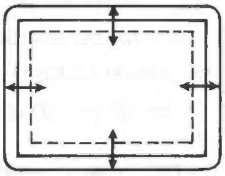


Fig. 32

8. Adjust R, B skew control (Black control on DY) so that the unmatch for left and right of R, B of center V line is symmetry. (Fig. 33)

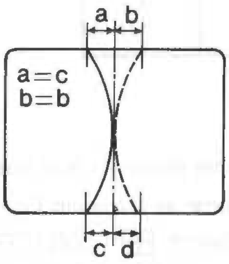


Fig. 33

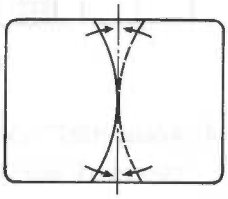


Fig. 34

9. Match the R, B of center V line by R, B Bow control (white control on DY). (Fig. 34)
10. When unmatching, repeat step 7 and 8.
11. When the periphery convergence is bad, fix the good point for convergence by inserting parmalloy.

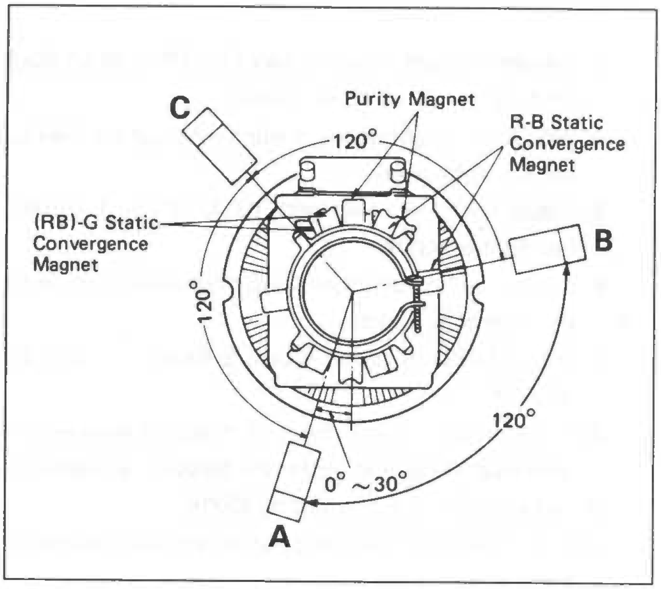

C
Purity Magnet
120°
R-B Static Convergence Magnet
(RB)-G Static Convergence Magnet
B
120°
120°
0° ~ 30°
A

Fig. 35

Notes:

1. Wedge A shown in Fig.35 should be fixed within a range of 0° ~ 30° to the left of the vertical line as shown.
2. After inserting wedge A, insert wedges B and C. The wedges should be set 120° apart from each other.
3. Be certain that the four wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. Otherwise the Deflection Yoke may shift it position and cause a loss of convergence and purity.

CUT OFF ADJUSTMENT (L-P.C. board)

1. EQUIPMENT TO USED

Oscilloscope
Video Generator

2. INITIALIZE CONDITION (D-P.C. board)

R3349 (R Drive) .... Center
R3351 (R Cut OFF) .... Center
R3366 (B Drive) .... Center
R3339 (B Cut OFF) .... Center
Color Temp. Selector .... 9300° K

3. ADJUSTMENT PROCEDURE

1. Set the input selector switches to LINE A.
2. Set the TV System selector switch to NTSC 3.58.
3. Input a Cross Hatch pattern signal to VIDEO input terminal.
4. Connect an Oscilloscope to **TPKG**, and ground.
5. Read the voltage (Black standard level to ground) on oscilloscope.
6. Adjust the Screen control on FBT so that the Black standard signal level is 95±5V.

Note: Black standard signal is output from the IC for auto white balance and appears after the vertical blanking pulse. Do not adjust at black level in video signal.

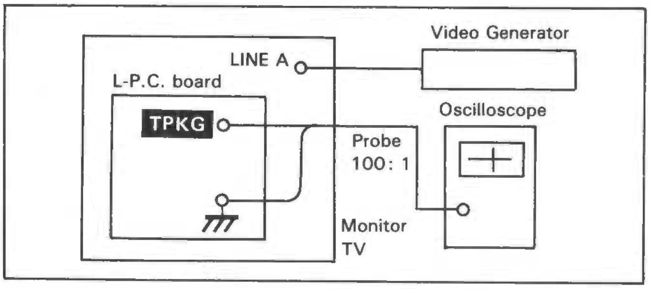


Fig. 36

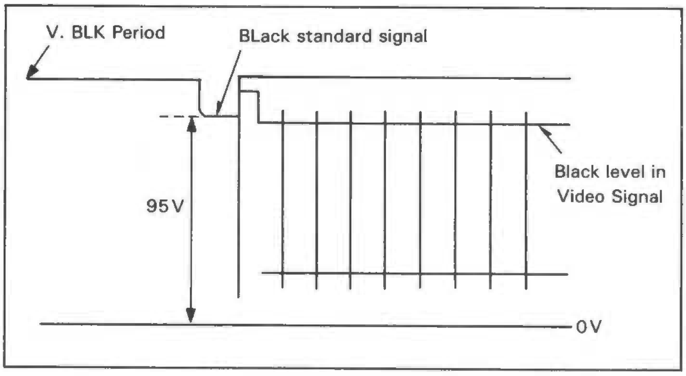


Fig. 37

WHITE BALANCE ADJUSTMENT (D-P.C. board)

1. EQUIPMENT TO USED

Video Generator
TV-Color Analyzer (MINOLTA)

2. INITIALIZE CONDITION

Chroma Control		Center
Phase Control		Center
Contrast Control		Max.
Aperture Control		Center
H. Cent. Control		Center
Brightness Control		Center
R3354 (R Drive) R3381 (R Low Light) R3344 (B Drive) R3347 (B Low Light)	for 9300° K	Center
R3349 (R Drive) R3351 (R Low Light) R3339 (B Drive) R3366 (B Low Light)	for 6500° K	Center
Color Temp. Selector		9300° K

3. ADJUSTMENT PROCEDURE

1. Operate the monitor over 30 minutes.
2. Apply a window pattern signal.

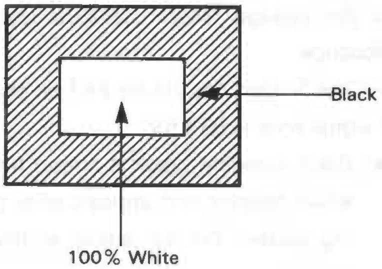


Fig. 38

3. Secure the light receiving part of a TV-color analyzer (MINOLTA) at the screen center.
4. Adjust the brightness and sub brightness controls to the low light screen.
5. Adjust R3381 (R Low Light), R3347 (B Low Light) for low light of 9300K.
6. Adjust the brightness and sub brightness controls to the high light screen.
7. Adjust R3354 (R Drive), R3344 (B Drive) for high light of 9300K.
8. Since the adjustment of steps 4 through 7 have mutual influence, be sure to repeat the followup adjustment.
9. Set the color temp. switch to 6500K.
10. Adjust the brightness and sub brightness controls to the low light screen.
11. Adjust R3351 (R Low Light), R3366 (B Low Light) for low light of 6500K.
12. Adjust the brightness and sub brightness controls to the high light screen.
13. Adjust R3349 (R Drive), R3339 (B Drive) for high light of 6500K.
14. Repeat steps 10 through 13, and finish at low light adjustment.
15. Finish at adjustment of 6500K surely.

SUB BRIGHTNESS ABL ADJUSTMENT (A/D-P.C. Board)

1. EQUIPMENT TO USED

Video Generator
DC Current Meter

2. INITIALIZE CONDITION

Contrast Control . . . . Max.
RGB Contrast Control . . . . Max.
Brightness Control. . . . . Center

3. ADJUSTMENT PROCEDURE

1. Operate the monitor over 30 minutes.
2. Set the Input Selector Switches to LINE A.
3. Input SMPTE or cross hatch pattern signal to VIDEO input terminal.
4. Set the black level of the picture to first lightup color (glimmer) by R3317 (Sub Brightness).

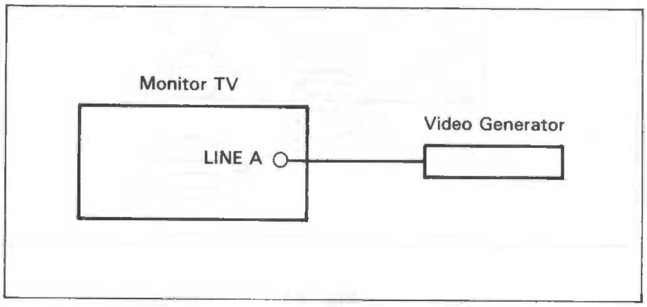


Fig. 39

FOCUS ADJUSTMENT

Adjust the focus control (on the FBT) to obtain the sharpest and clearest picture.

DEFLECTION ADJUSTMENT (A/E-P.C. board)

1. Set the Input Selector Switches to LINE A.
2. Set the TV System Selector switch to NTSC.
3. Set the Underscan Switch to OFF.
4. Adjust R5764 (V. PINC.) so that the vertical line is straight.
5. Input a Monoscope pattern signal to LINE A input terminal.
6. Adjust R468 (V. Center) so that the vertical picture position is center.
7. Adjust horizontal width by R563 (H. Size) so that the A = B = 2.5 ± 0.5 as shown in Fig. 40.
8. Adjust vertical height by R402 (V. Size) so that the C = D = 2.0 ± 0.5 as shown in Fig. 41.

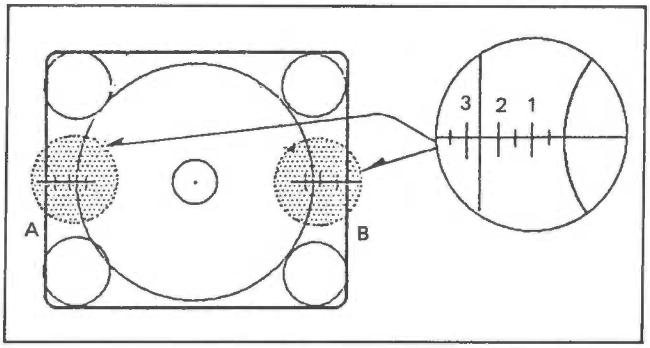


Fig. 40

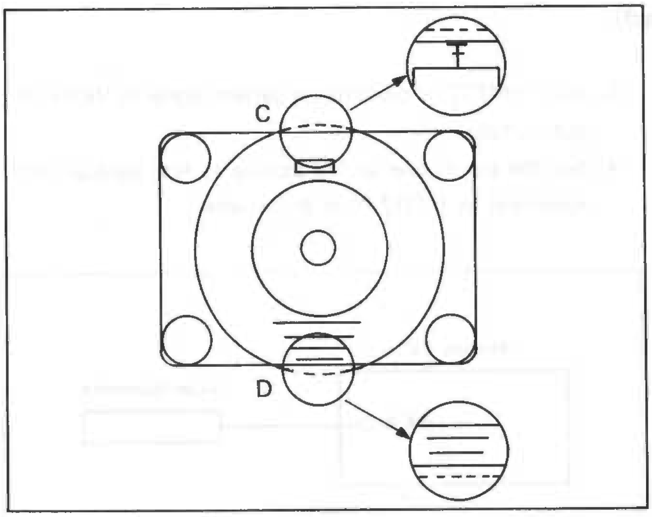
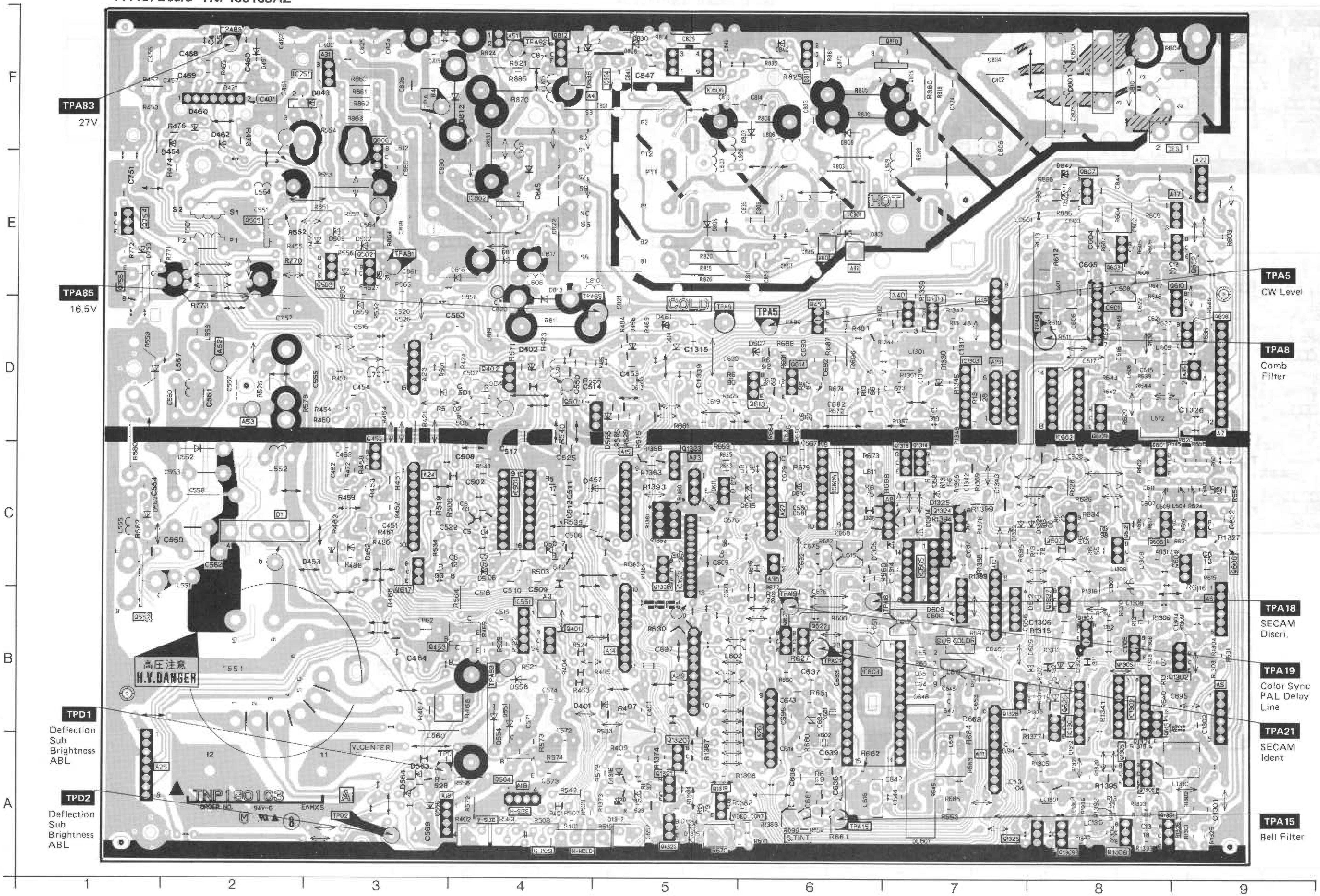


Fig. 41

9. Set the Underscan Switch to ON.
10. Adjust Brightness Control so that the back raster appear, and set the back raster in center position by R508 (Sub H. Center).
11. Set the Underscan Switch to OFF.
12. Confirm that the picture is impartical to right and left too far and the all picture is overscan.
13. Set the TV System Selector to PAL.
14. Input a PAL signal to LINE B input terminal.
15. Set the Underscan Switch to ON, and then confirm that the all picture is underscan.

Circuit Boards

A-P.C. Board TNP190103AZ



A-P.C. BOARD	
IC	
IC401	F-2
IC501	C-4
IC551	B-4
IC601	D-8
IC602	D-8
IC603	B-6
IC605	C-7
IC606	C-6
IC607	C-5
IC801	E-6
IC802	E-4
IC804	F-5
IC806	F-5
IC751	F-2
IC1301	B-8
IC1302	B-8
IC1303	D-7
TRANSISTOR	
Q401	B-1
Q402	D-4
Q451	D-6
Q452	C-3
Q453	B-3
Q454	B-4
Q501	D-4
Q502	E-3
Q503	E-3
Q504	A-4
Q505	E-2
Q552	B-1
Q601	C-8
Q602	E-9
Q603	E-8
Q604	C-9
Q605	C-8
Q606	C-9
Q607	C-8
Q608	D-9
Q609	D-8
Q610	D-9
Q612	C-8
Q613	D-6
Q614	D-6
Q615	B-8
Q617	C-3
Q620	B-8
Q621	B-6
Q622	B-6
Q754	E-1
Q755	E-1
Q801	F-7
Q804	F-7
Q806	F-3
Q807	E-8
Q810	E-6
Q811	E-6
Q812	F-4
Q1301	A-8
Q1302	B-9
Q1303	B-8
Q1304	B-8
Q1305	A-8
Q1306	A-8
Q1308	A-8
Q1309	A-8
Q1313	D-7
Q1314	C-7
Q1318	C-7
Q1319	A-5
Q1320	A-5
Q1321	A-5
Q1322	A-5
Q1323	C-5
Q1324	C-7
Q1325	A-8
Q1326	B-7
Q1327	B-8
Q1328	C-5
VR	
R402	A-4
R468	B-4
R508	A-4
R510	A-5
R563	A-4
R604	E-8
R663	A-7
R670	A-5
R697	B-7
R699	A-6
R1316	B-8
TP	
TPA5	D-6
TPA8	D-8
TPA9	D-5
TPA15	A-6
TPA16	B-6
TPA18	C-6
TPA19	B-6
TPA21	B-6
TPA83	F-2
TPA84	F-3
TPA85	D-5
TPD1	B-3
TPD2	A-3

ADDRESS INFORMATION

C-P.C. Board			
TRANSISTOR		R5119	E-2
Q5100	F-4	R5123	E-2
VR		R5127	E-1
R5107	E-4	R5132	E-5
R5111	E-3	R5135	E-4
R5115	E-3		

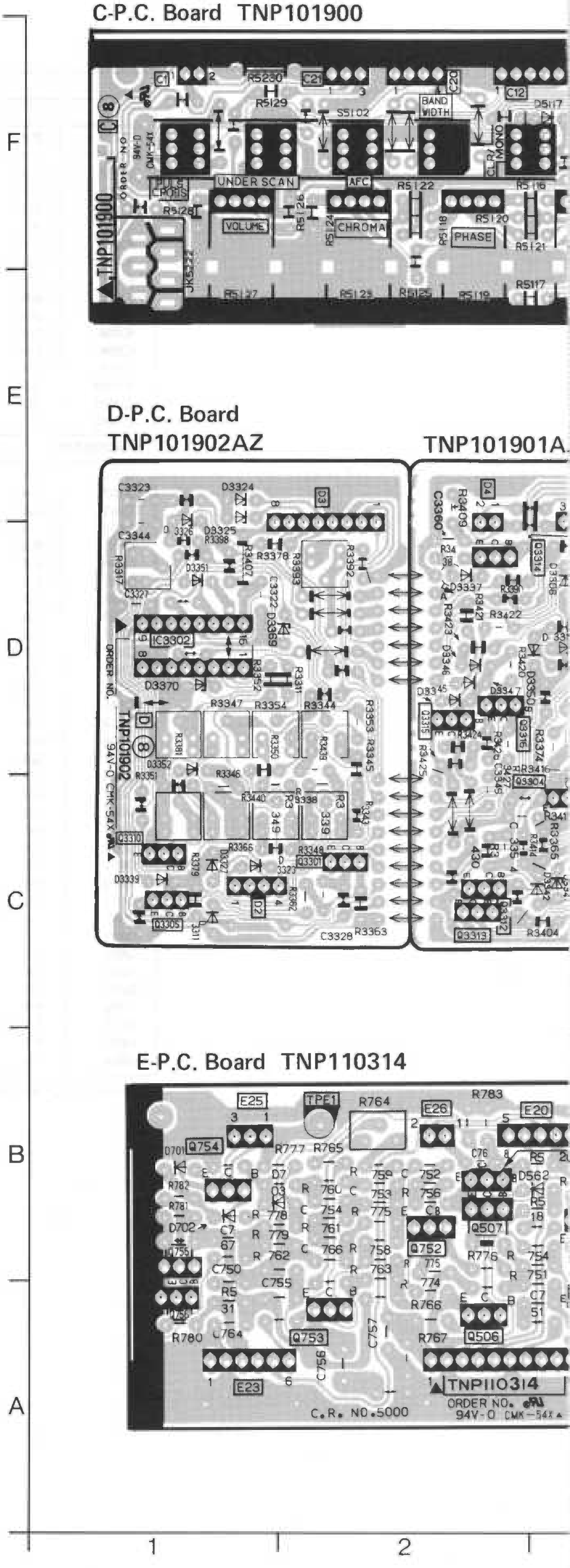
ADDRESS INFORMATION

D-P.C. Board			
IC		**VR**	
IC3301	D-4	R3317	D-1
IC3302	D-1	R3339	C-2
IC3304	C-5	R3344	D-2
TRANSISTOR		R3347	D-1
		R3349	C-2
Q3301	C-2	R3351	C-1
Q3302	D-3	R3354	D-2
Q3304	C-3	R3366	C-1
Q3305	C-1	R3381	D-1
Q3310	C-1	R3393	D-2
Q3311	D-4	**TP**	
Q3312	C-2		
Q3313	C-2	TPD3	E-3
Q3314	D-2	TPD5	D-5
Q3315	D-2	TPD6	D-5
Q3316	D-2		

ADDRESS INFORMATION

E-P.C. Board			
TRANSISTOR		Q755	B-1
		Q756	A-1
Q506	A-2	**VR**	
Q507	B-2	R764	B-2
Q750	B-3	**TP**	
Q751	A-3		
Q752	B-2	TPE1	B-2
Q753	A-2		
Q754	B-1		

ADDRESS INFORMATION

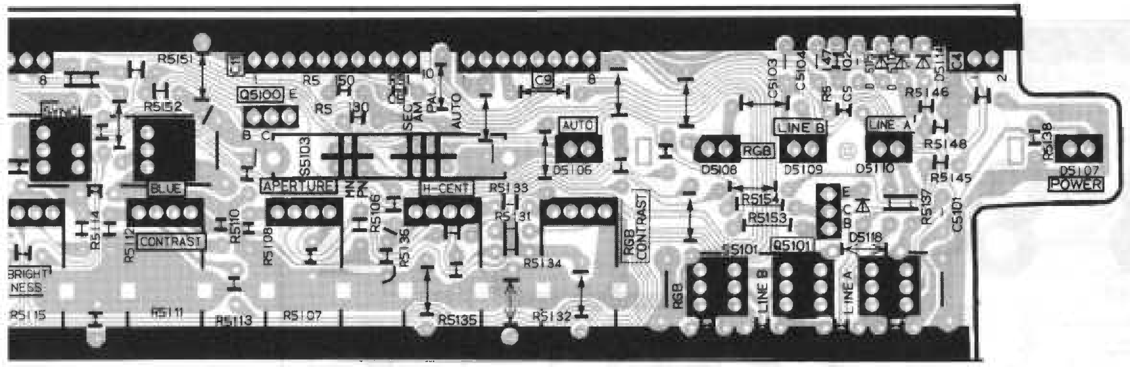


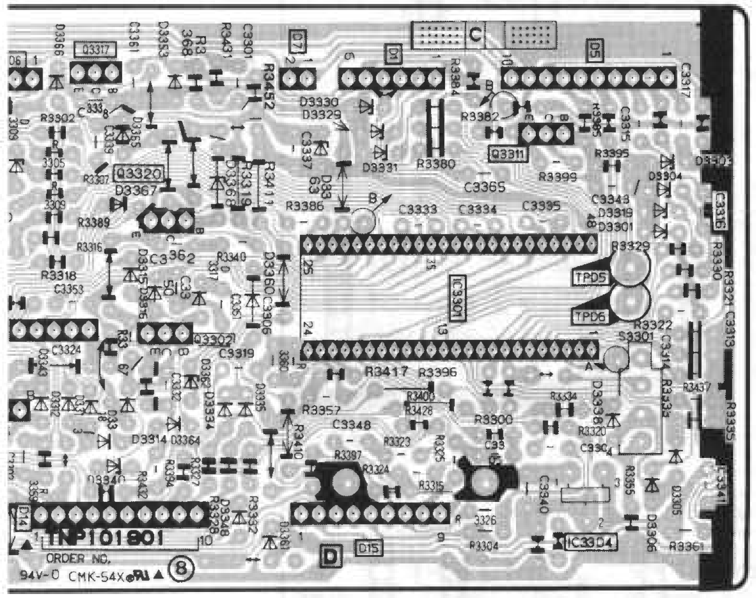
C-P.C. Board TNP101900

D-P.C. Board TNP101902AZ

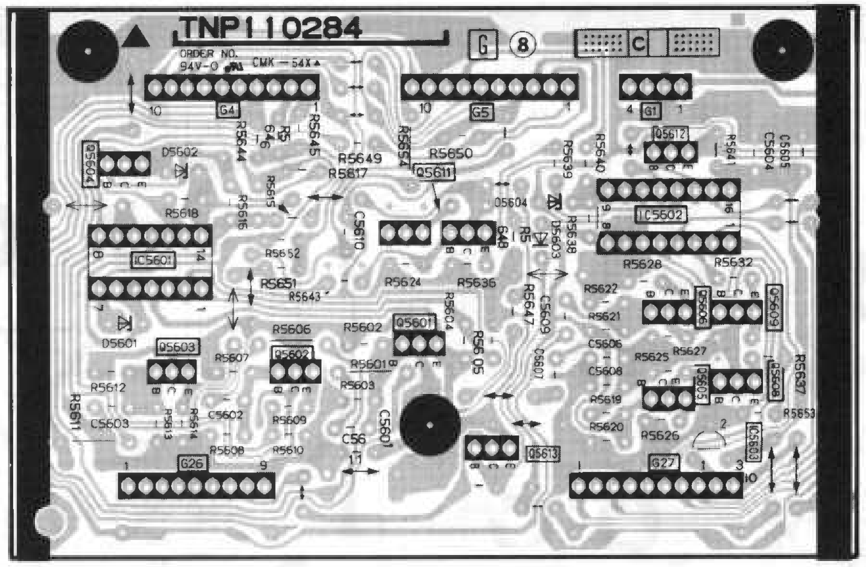
TNP101901A

E-P.C. Board TNP110314





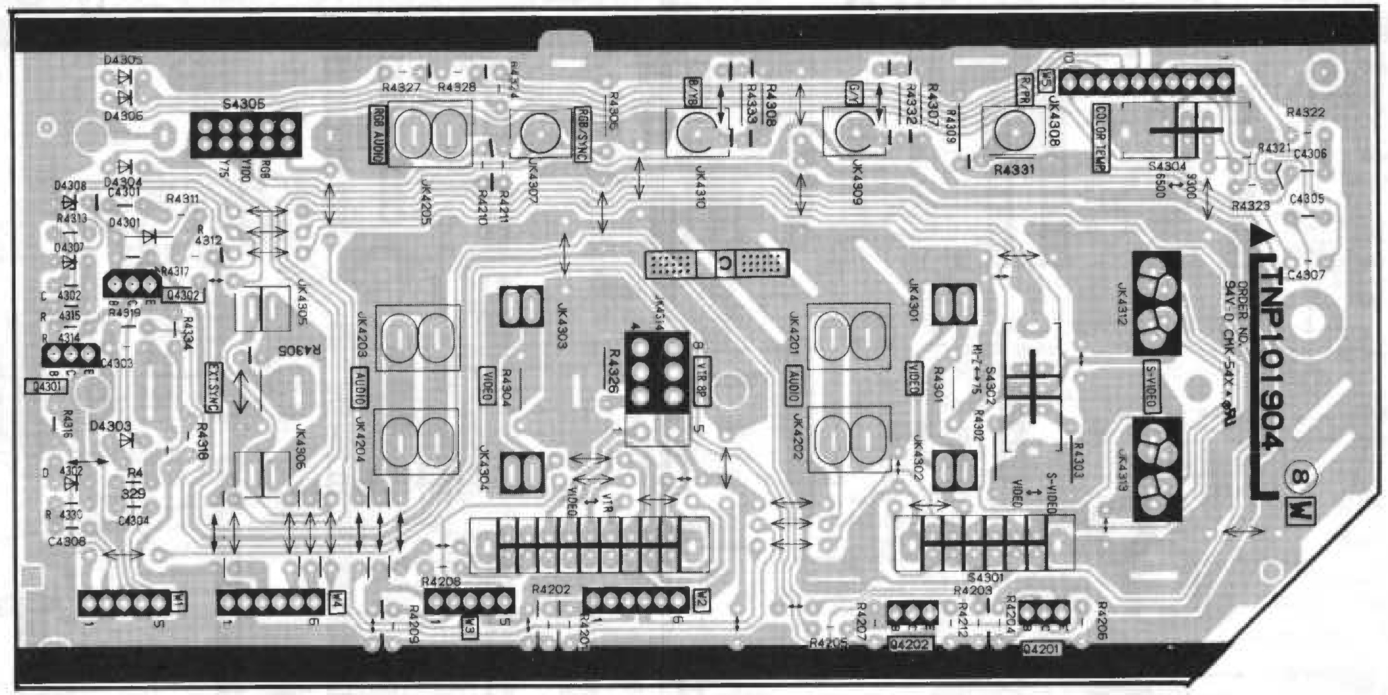
G-P.C. Board TNP110284



G-P.C. Board			
IC		Q5604	F-7
IC5601	F-7	Q5605	E-9
IC5602	F-9	Q5606	E-9
IC5603	E-9	Q5607	F-8
TRANSISTOR		Q5608	E-9
Q5601	E-8	Q5609	E-9
Q5602	E-8	Q5610	F-8
Q5603	E-7	Q5611	F-8
		Q5612	F-9

ADDRESS INFORMATION

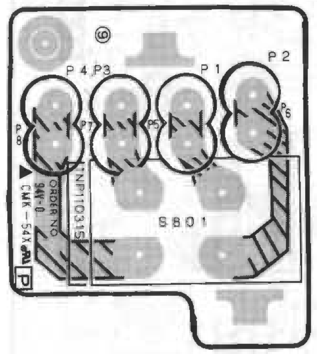
W-P.C. Board TNP101904

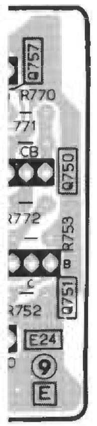


W-P.C. Board	
TRANSISTOR	
Q4201	B-9
Q4202	B-8
Q4301	B-5
Q4302	C-6

ADDRESS INFORMATION

P-P.C. Board TNP110315

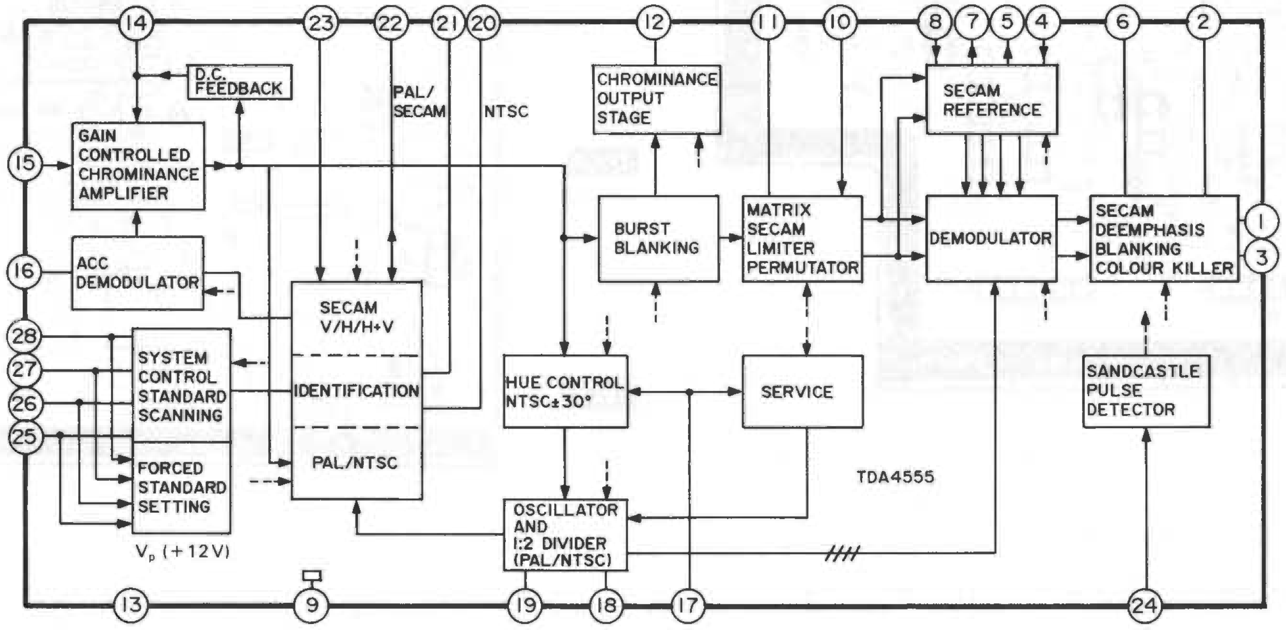




3 4 5 6 7 8 9

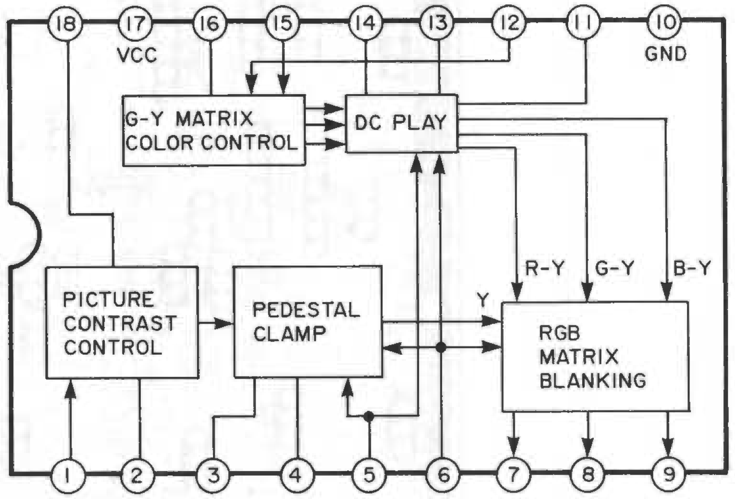
IC603 TDA4555

PIN NO.	MARK	FUNCTION
1	– (R-Y)	– (R-Y) Output
2	SECAM R-Y DEEM	R-Y SECAM deemphasis.
3	– (B-Y)	– (B-Y) Output.
4	B-Y REF	B-Y SECAM reference input.
5	B-Y REF	B-Y SECAM reference output.
6	SECAM B-Y DEEM	B-Y SECAM deemphasis.
7	R-Y REF	R-Y SECAM reference output.
8	R-Y REF	R-Y SECAM reference input.
9	EARTH	Ground.
10	DELAYED IN	64μs delay input.
11	MATRIX OUT	MATRIX SECAM limiter output.
12	CHROMA OUT	Chrominance output.
13	12V	Supply Voltage 12V.
14	FEED BACK FILTER	DC feedback.
15	CHROMA IN	Chrominance input.
16	AGC DEMODU.	AGC demodulator.
17	SERVICE (TINT)	Hue control.
18	CLK	PLL
19	CLK	7.16 MHz (NTSC) 8.86 MHz (PAL) Oscillator.
20	NTSC SYSTEM F.	NTSC identification.
21	P/S SYSTEM F.	PAL/SECAM identification.
22	SECAM IDENT ADJ.	SECAM identification reference.
23	SECAM SYS. SW	Ground.
24	SAND	Sandcastle pulse input.
25	SYSTEM NTSC 4.43	NTSC 4.43 MHz recognize input/output.
26	SYSTEM NTSC 3.58	NTSC 3.58 MHz recognize input/output.
27	SYSTEM SECAM	SECAM recognize input/output.
28	SYSTEM PAL	PAL recognize input/output.



IC606 AN5613

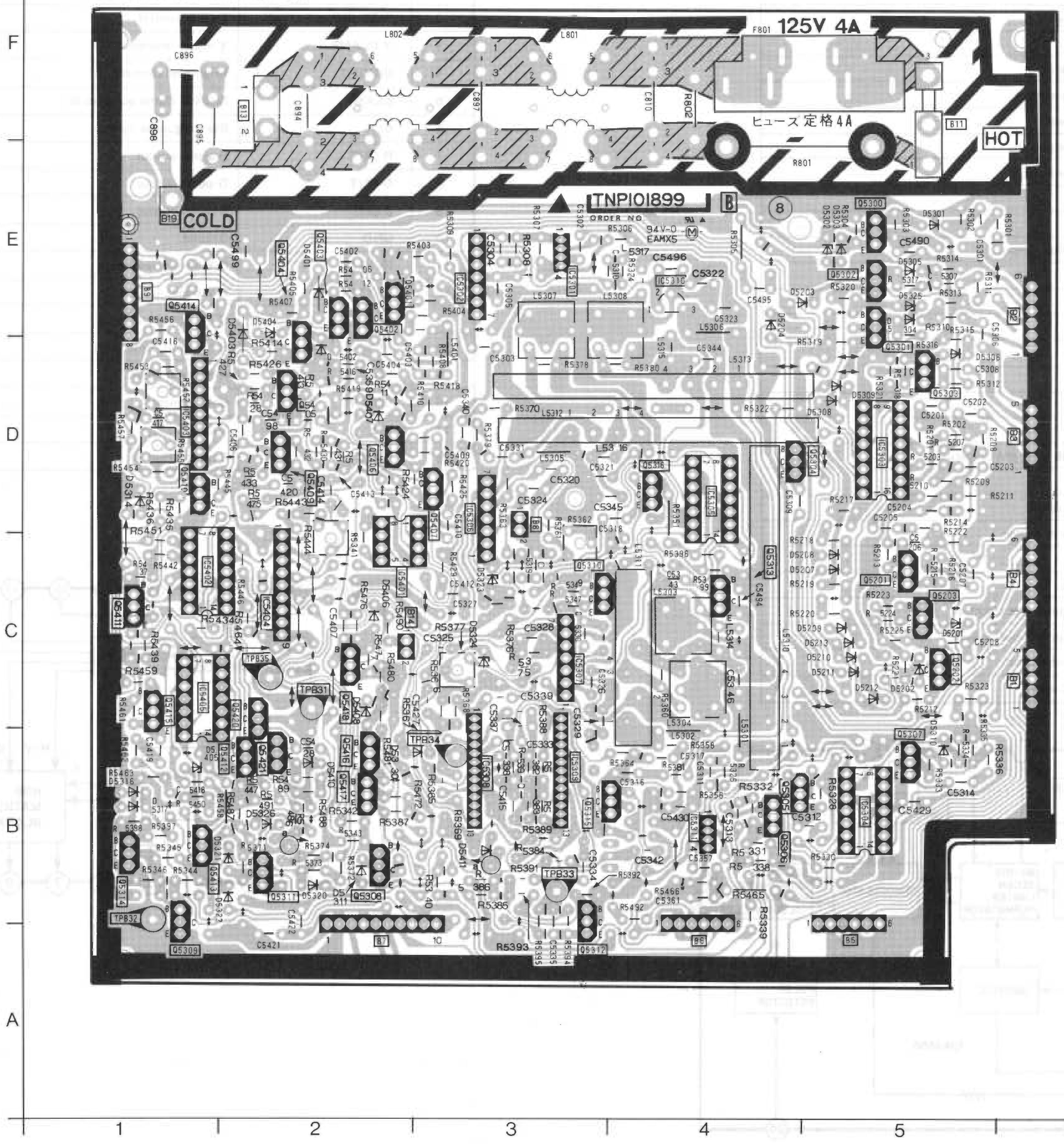
PIN NO.	MARK	FUNCTION
1	Y IN	Luminance (Y) signal input.
2	PICTURE	Picture control.
3	Y CLAMP	Y clamp condensor.
4	BRIGHT	Brightness control.
5	CLAMP	Pedestal clamp pulse input.
6	BLK	Blanking pulse input.
7	R OUT	R signal output.
8	G OUT	G signal output.
9	B OUT	B signal output.
10	GND	Ground.
11	(B-Y) C	B-Y clamp condensor.
12	(B-Y) IN	B-Y signal input.
13	(G-Y) CLAMP	G-Y clamp condensor.
14	(R-Y) C	R-Y clamp condensor.
15	(R-Y) IN	R-Y signal input.
16	COLOR	Color control.
17	Vcc	Supply voltage.
18	CONT.	Contrast control.



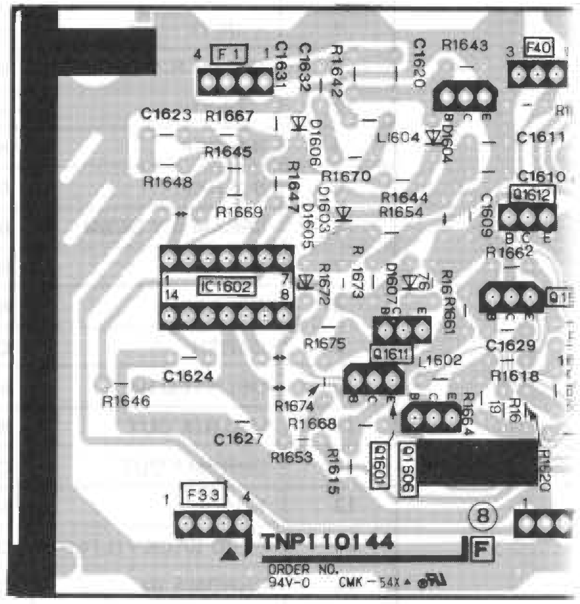
B-P.C. Board	
Transistor	
IC5301	E-3
IC5302	E-3
IC5303	D-5
IC5304	B-5
IC5305	D-4
IC5306	D-3
IC5307	C-3
IC5308	B-3
IC5309	B-3
IC5310	E-4
IC5311	B-4
IC5401	C-2
IC5402	C-1
IC5403	D-1
IC5404	C-2
IC5405	C-1
TRANSISTOR	
Q5201	C-5
Q5202	C-5
Q5203	C-5
Q5300	E-5
Q5301	E-5
Q5302	E-5
Q5303	D-5
Q5304	D-4
Q5305	B-4
Q5306	B-4
Q5307	B-5
Q5308	B-2
Q5309	A-1
Q5310	C-3
Q5311	B-2
Q5312	A-3
Q5313	C-4
Q5314	B-1
Q5315	B-3
Q5401	E-2
Q5402	E-2
Q5403	E-2
Q5404	E-2
Q5405	D-2
Q5406	D-2
Q5407	D-3
Q5409	D-2
Q5410	D-1
Q5411	C-1
Q5412	B-2
Q5413	B-1
Q5414	E-1
Q5415	C-1
Q5416	B-2
Q5417	B-2
Q5418	C-2
Q5420	C-2
Q5421	B-2
VR	
R5360	C-2
R5362	C-3
R5377	C-3
R5444	C-2
R5452	D-1
R5455	D-1
TP	
TPB31	A-2
TPB32	B-1
TPB33	B-3
TPB34	B-3
TPB35	C-2

ADDRESS INFORMATION

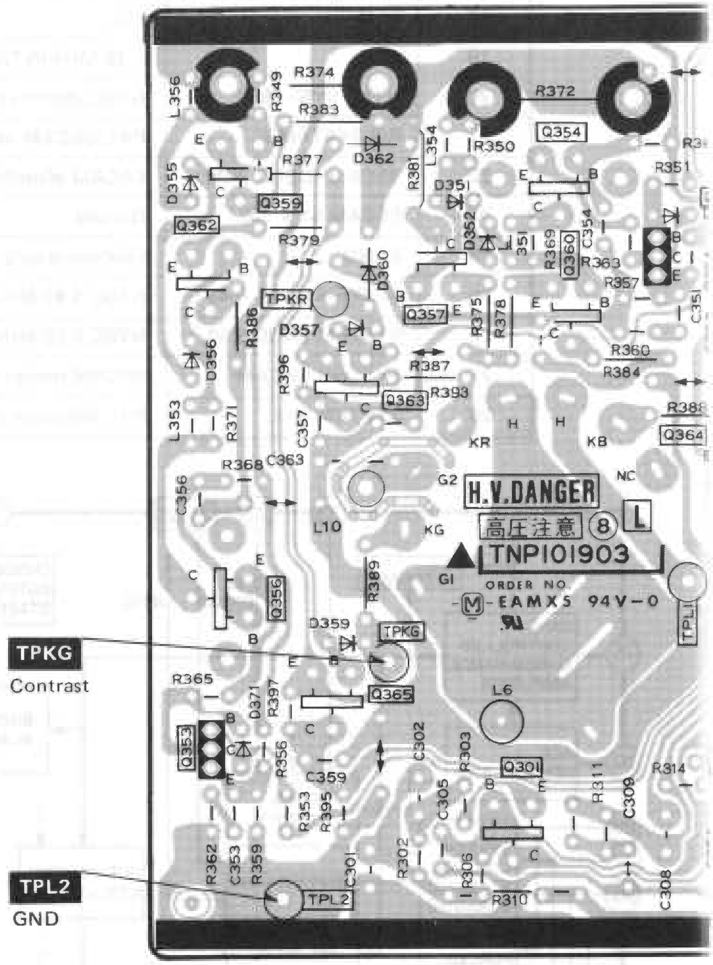
B-P.C. Board TNP101899

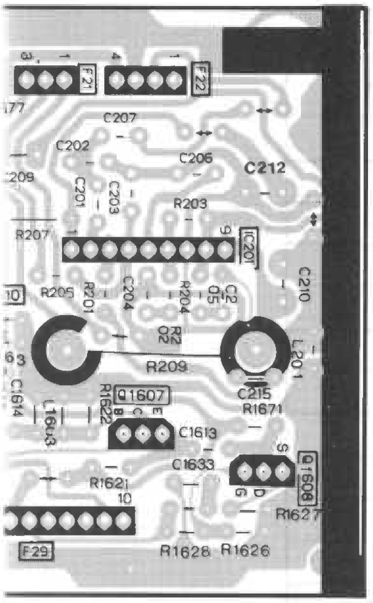


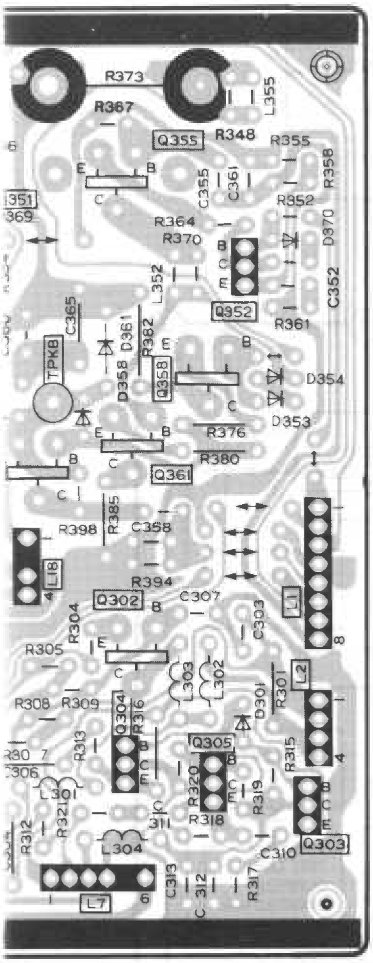
F-P.C. Board TNP110144



L-P.C. Board TNP101903AB







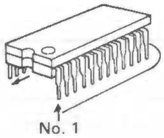
F-P.C. Board	
IC	
IC201	F-9
IC1602	E-7
TRANSISTOR	
Q1601	E-8
Q1606	E-8
Q1607	E-9
Q1608	E-9
Q1609	F-8
Q1610	E-8

ADDRESS INFORMATION

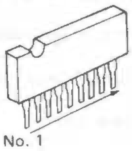
L-P.C. Board	
TRANSISTOR	
Q301	A-8
Q302	B-9
Q303	A-9
Q304	B-9
Q305	B-9
Q351	C-8
Q352	C-9
Q353	B-7
Q354	C-8
Q355	C-9
Q356	B-7
Q357	C-7
Q358	C-9
Q359	C-7
Q360	C-8
Q361	C-9
Q362	C-7
Q363	C-7
Q364	C-8
Q365	B-7
TP	
TPKR	C-7
TPKG	B-7
TPKB	C-9
TPL1	B-8
TPL2	A-7

ADDRESS INFORMATION

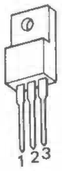
TERMINAL GUIDE OF IC'S, TRANSISTORS, DIODES



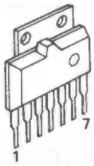
CXA1024S : 48 Pin
TDA4555 : 28 Pin
TDA2579A : 18 Pin
AN5613 : 18 Pin
MC4052BCP : 16 Pin
MC14053BCP : 16 Pin
TC4066BP : 14 Pin
AN5860 : 14 Pin
SN74LS86AN : 14 Pin
AN6912 : 14 Pin
LM1881N : 8 Pin
TLP621GR : 4 Pin



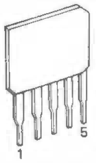
AN5862K : 13 Pin
AN5265 : 9 Pin
BA236B : 9 Pin
TA7347P : 7 Pin
AN614 : 7 Pin



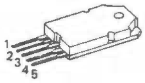
AN78M09
AN78L09
SE095
UPC2412HF
AN78M20



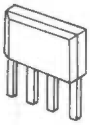
AN5521



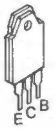
TNH11303



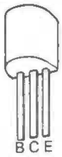
STR60001F51



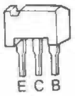
AN608P



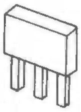
2SD1439PLB



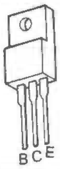
2SC1383R



UN4211
UN4212
UN4213

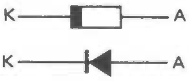


2SA1309A
2SC3311A



2SC3942RL
2SC1685Q
2SC2653HLB
2SA1605RL
2SA879
2SA683R
2SD1264RL
2SD1499QLB

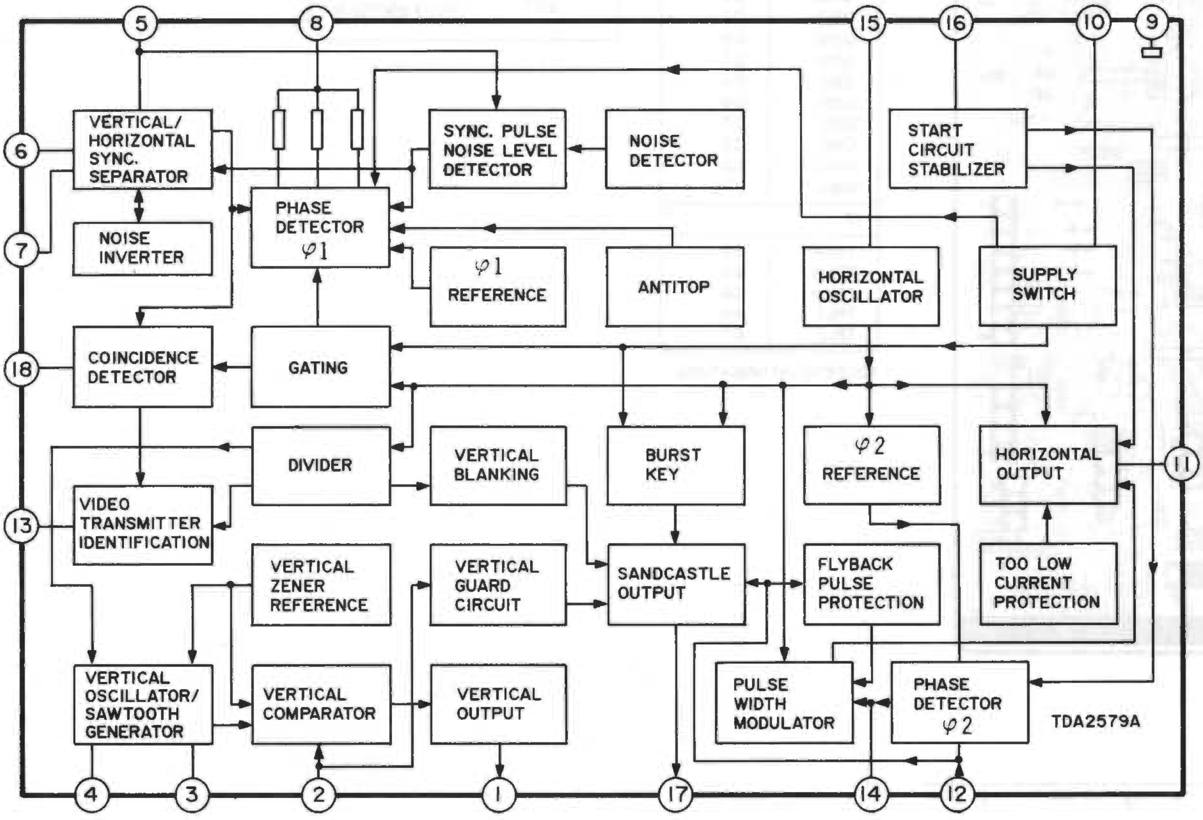
Diode



IF Function of Terminal and Equipment Circuit

IC501 TDA2579A

PIN NO.	MARK	FUNCTION
1	V. OUT	Vertical Output.
2	V. FEED BACK	
3		Vertical ramp generator
4		Vertical amplitude
5		Video signal input.
6		Black level
7	SYNC SEP.	
8	AFC	
9	GND	Ground.
10	Vcc	Supply Voltage
11	H. DRIVE	Horizontal drive output.
12	FBP	Flyback pulse input
13	50/60	
14		Horizontal portion
15		Horizontal OSC.
16		Starter
17	SANDC. OUT	Standcastle output
18		AFC



IC3301 CXA1024S

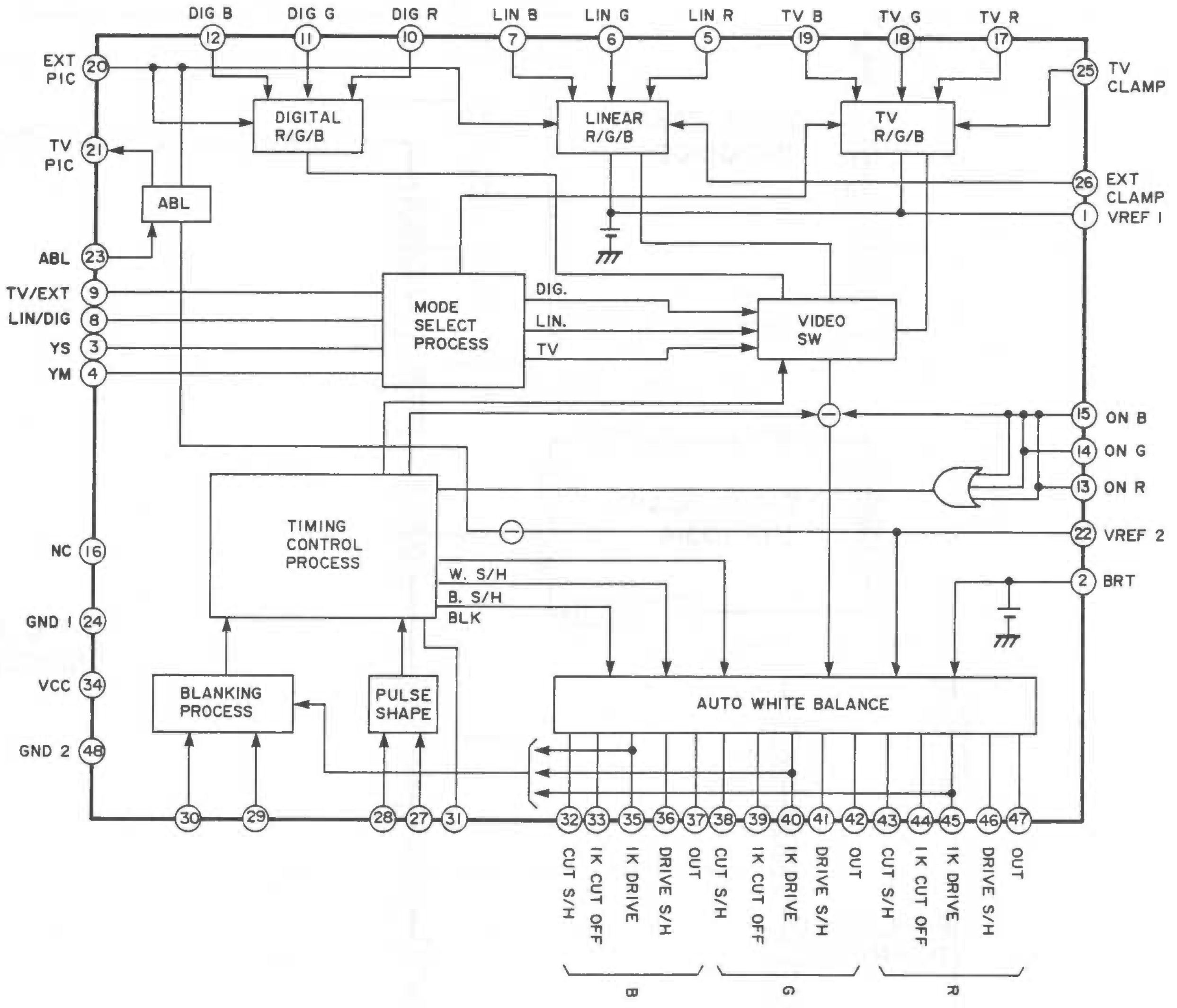
PIN NO.	MARK	FUNCTION
1	VREF1	Clamp standard voltage.
2	VREF2	Detect standard voltage.
3	YM	YM switch control.
4	Ys	Ys switch control.
5	LIN R	R, G, B signal input at Linear input mode.
6	LIN G	
7	LIN B	
8	LIN/DIG	Linear/Digital input mode select control.
9	TV/EXT	TV/EXT (Lin./Dig.) input mode select control.
10	DIG R	R, G, B signal input at Digital input mode.
11	DIG G	
12	DIG B	
13	ON R	R, G, B signal input at On screen display.
14	ON G	
15	ON B	
16	NC	Not connected.
17	TV R	R, G, B signal input at TV input mode.
18	TV G	
19	TV B	
20	EXT PIC	Picture control for Ext. signal (Lin./Dig.).
21	NC	Not connected.
22	BRT	Brightness control.
23	ABL	Decrease the picture and brightness control gain by DC voltage for inputed ABL. (PIC ABL : Less than 4.5V, BRT ABL : Less than 2.0V)
24	GND1	Ground.
25	TV CLAMP	Clamp timing pulse input for TV input terminal.
26	EXT CLAMP	Clamp timing pulse input for Linear input terminal.
27	H. PULSE	Horizontal pulse input.
28	V. PULSE	Vertical pulse input.
29	MUTE	Terminal determined video mute time at SW on.
30	BLK	Blanking terminal for all period.
31	SW	ON/OFF output for Drive IK resistor.
32	B CUT S/H	Sample hold terminal for cut off control.
38	G CUT S/H	
43	R CUT S/H	
33	B IK OUT OFF	IK input (Cut off control for signal output).
39	G IK OUT OFF	
44	R IK CUT OFF	
34	Vcc	Supply voltage.
35	B IK DRIVE	IK input (Drive control for signal output).
40	G IK DRIVE	
45	R IK DRIVE	
36	B DRIVE S/H	Sample hold terminal for drive control.
41	G DRIVE S/H	
46	R DRIVE S/H	
37	B OUT	R, G, B signal output.
42	G OUT	
47	R OUT	
48	GND2	Ground.

Input/Output Truth Value Table

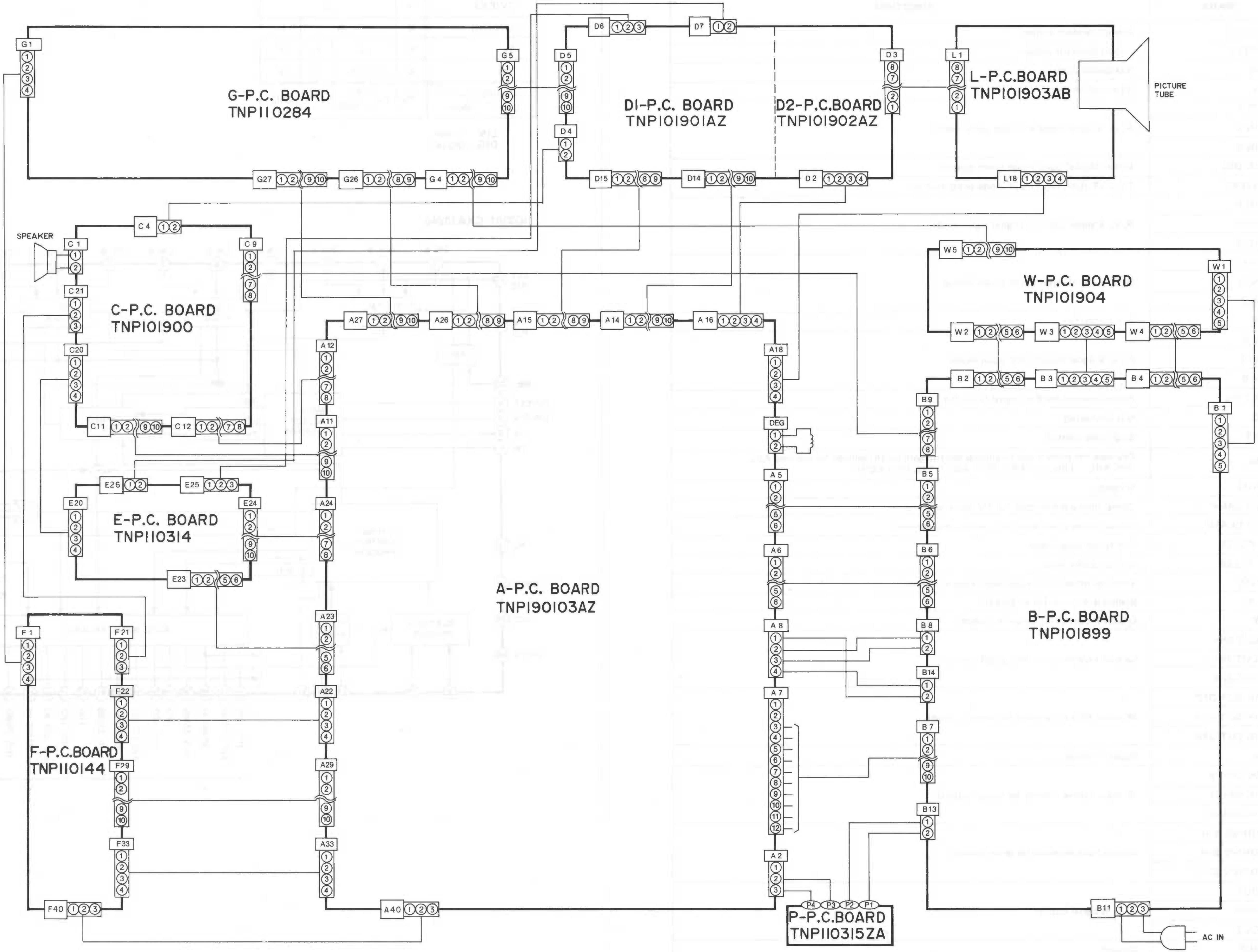
TV/EXT	H	L			
LIN/DIG	X	H			L
Ys	X	L		H	X
YM	X	L	H	X	X
Control / Mode	TV	TV	TV −6dB	LIN	DIG

LIN : Linear
DIG : Digital

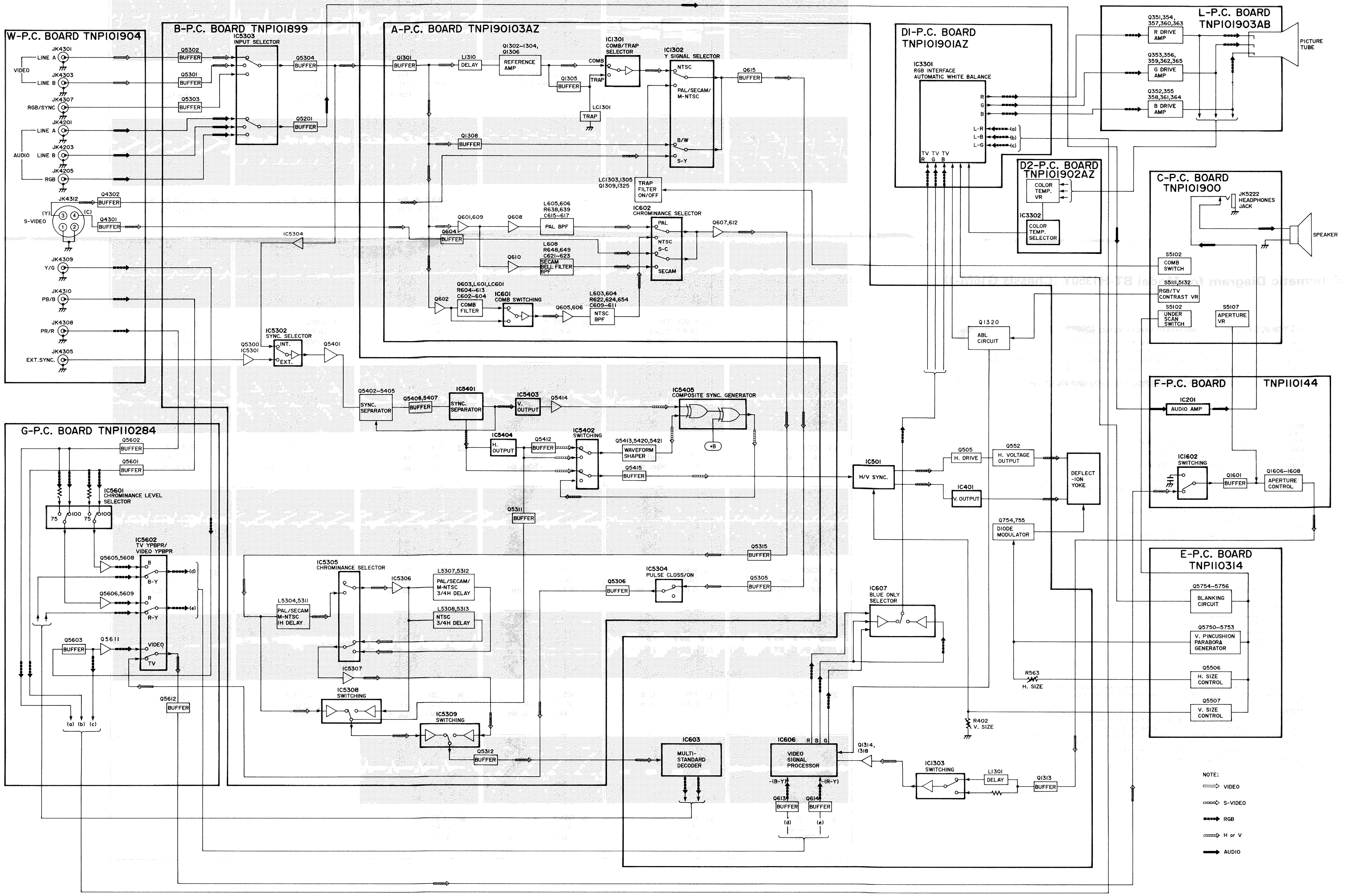
IC3301 CXA1024S



Interconnections



Block Diagram



Schematic Diagram for Model BT-H1350Y (Chassis G16M-1)

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X–RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

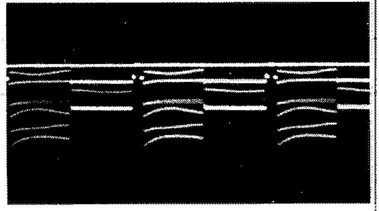
NOTE:

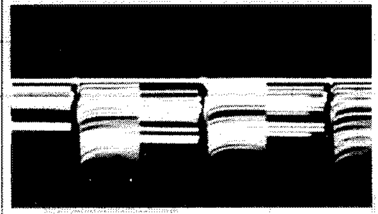
1. **S801** : Power switch in OFF position.
2. **S3301** : Lever switch in B position.
3. **S4301** : BNC/S-VIDEO switch in S-VIDEO position.
4. **S4302** : Inpedance selector switch in 75Ω.
5. **S4303** : BNC/8P switch in BNC position.
6. **S4304** : Color temp. selector switch in 9300°K.
7. **S4305** : Chroma level turning switch.
8. **S5101** : Input selector switches in LINE A.
9. **S5102** : Operation switches (Sync/Blue only/Underscan/P. Cross/Comb/CLR· BW/AFC).
10. **S5103** : TV system selector switch.
11. RESISTOR
    All resistors are carbon 1/4W resistor, unless specified otherwise.
    Unit of resistance is OHM (Ω), (K = 1,000, M = 1,000,000).
12. CAPACITOR
    All capacitors are ceramic 50V capacitor, unless specified otherwise.
    Unit of capacitance is μF, unless otherwise noted.
13. COIL
    Unit of inductance is μH.
14. TEST POINT
    ● : Test point position.
15. VOLTAGE MEASUREMENT
    Voltage is measured by an electronic voltmeter receiving rainbow color bar signal when all customer's are set to fully clockwise position.
16. This schematic diagram is the latest at the time of printing and subject to change without notice.
17.
    ——— **Positive voltage lines**
    ⇨ Video signal
    ▢▢▢▷ S-Video signal
    ■■■▶ RGB signal
    ▨▨▨▷ V or H output signal
    ➡ Audio signal

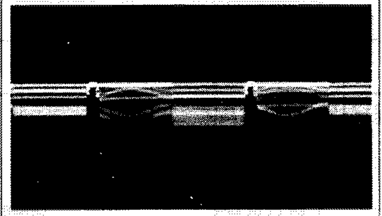
Note:
The power Circuit board contains a circuit area which uses separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

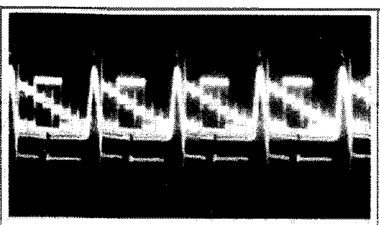
PRECAUTIONS

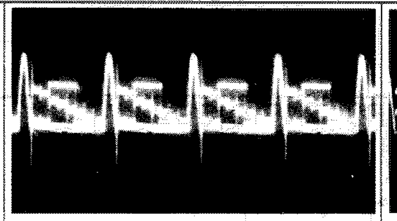
1. Do not touch the hot part or the hot and cold parts at the same time or you may receive a shock.
2. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
3. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the ground of instruments to the ground connection of the circuit being measured.
4. Make sure to disconnect the power plug before removing the chassis.

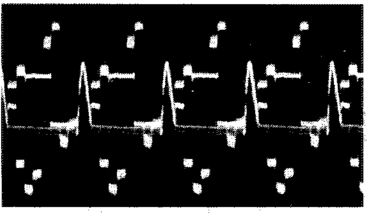

① TPKR (L-P.C. Board)
100Vp-p/5ms. div.

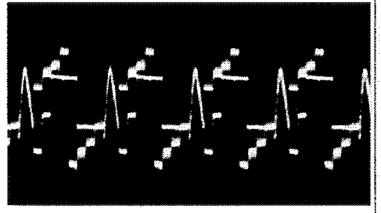

② TPKG (L-P.C. Board)
100Vp-p/5ms. div.

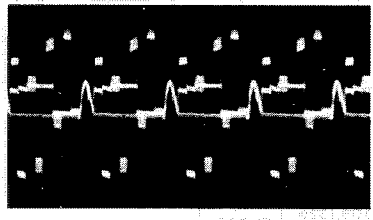

③ TPKB (L-P.C. Board)
48Vp-p/5ms. div.

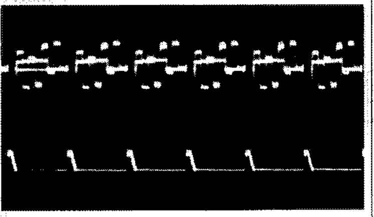

④ IC5602 14 Pin
(G-P.C. Board)
0.88Vp-p/50μs. div.

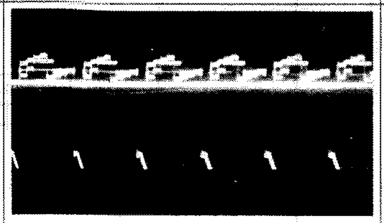

⑤ IC1602 10 Pin
(F-P.C. Board)
0.96Vp-p/50μs. div.

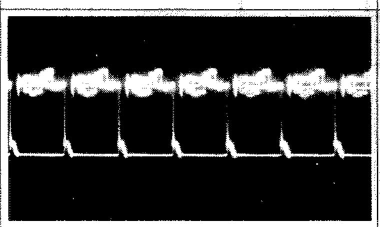

⑥ IC3301 17 Pin
(D-P.C. Board)
1.5Vp-p/50μs. div.

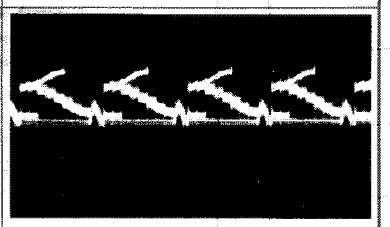

⑦ IC3301 18 Pin
(D-P.C. Board)
1.1Vp-p/50μs. div.

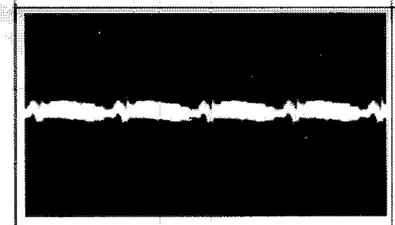

⑧ IC3301 19 Pin
(D-P.C. Board)
2Vp-p/50μs. div.

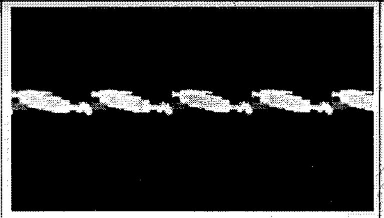

⑨ IC3301 37 Pin
(D-P.C. Board)
4.2Vp-p/50μs. div.

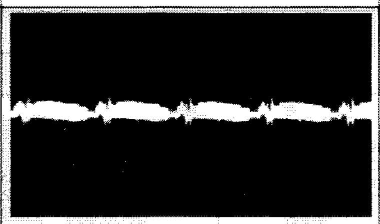

⑩ IC3301 42 Pin
(D-P.C. Board)
4.6Vp-p/50μs. div.

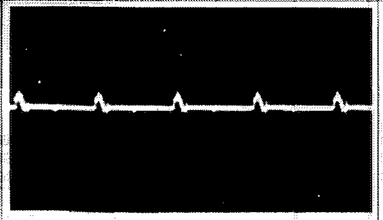

⑪ IC3301 47 Pin
(D-P.C. Board)
4.6Vp-p/50μs. div.

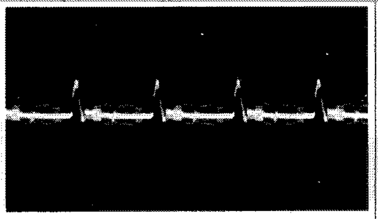

⑫ TPA5 (A-P.C. Board)
1.1Vp-p/50μs. div.

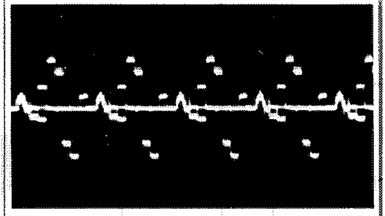

⑬ IC601 1 Pin
(A-P.C. Board)
0.8Vp-p/50μs. div.

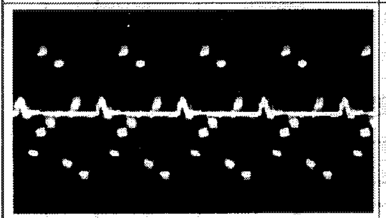

⑭ IC601 3 Pin
(A-P.C. Board)
8Vp-p/50μs. div.

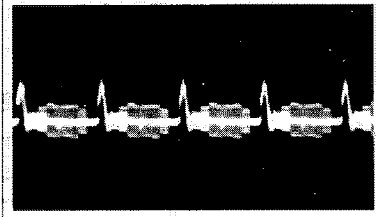

⑮ IC601 6 Pin
(A-P.C. Board)
8Vp-p/50μs. div.

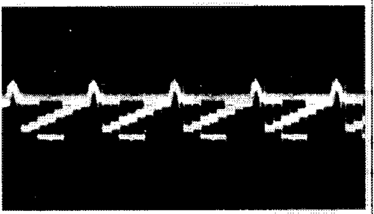

⑯ IC602 1 Pin
(A-P.C. Board)
8Vp-p/50μs. div.

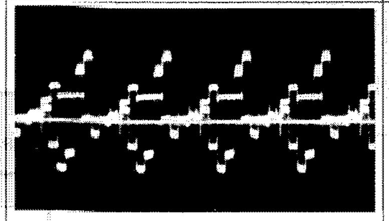

⑰ IC602 8 Pin
(A-P.C. Board)
0.7Vp-p/50μs. div.

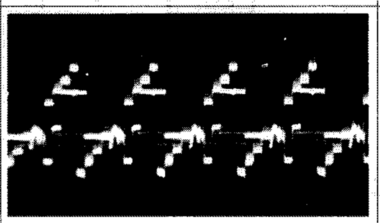

⑱ IC603 1 Pin
(A-P.C. Board)
0.85Vp-p/50μs. div.

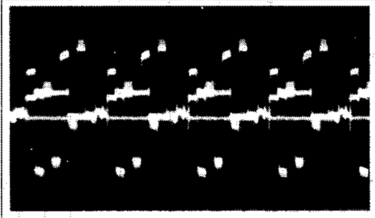

⑲ IC603 3 Pin
(A-P.C. Board)
1.1Vp-p/50μs. div.

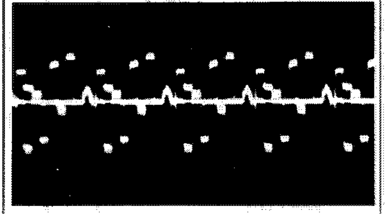

⑳ IC603 15 Pin
(A-P.C. Board)
0.8Vp-p/50μs. div.

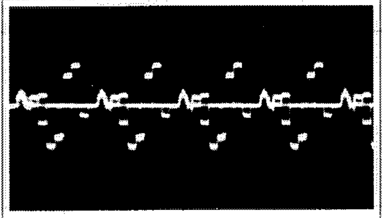

㉑ IC606 1 Pin
(A-P.C. Board)
1.15Vp-p/50μs. div.

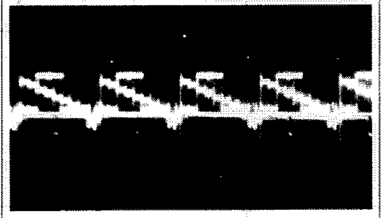

㉒ IC606 7 Pin
(A-P.C. Board)
2.1Vp-p/50μs. div.

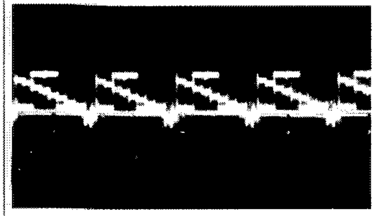

㉓ IC606 8 Pin
(A-P.C. Board)
1.5Vp-p/50μs. div.

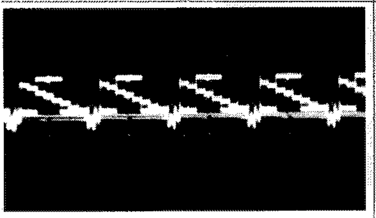

㉔ IC606 9 Pin
(A-P.C. Board)
2.3Vp-p/50μs. div.

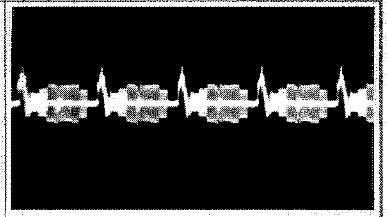

㉕ IC606 12 Pin
(A-P.C. Board)
0.8Vp-p/50μs. div.

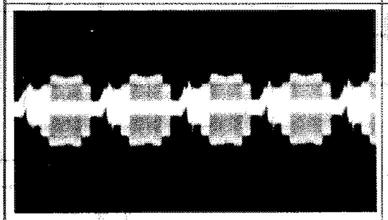

㉖ IC606 15 Pin
(A-P.C. Board)
0.7Vp-p/50μs. div.

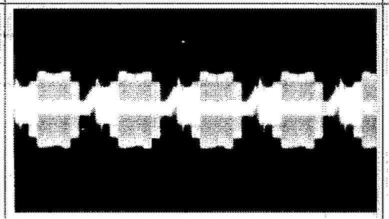

㉗ IC1301 1 Pin
(A-P.C. Board)
0.7Vp-p/50μs. div.

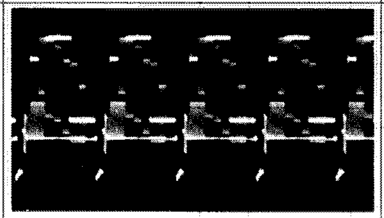

㉘ IC1301 3 Pin
(A-P.C. Board)
0.7Vp-p/50μs. div.

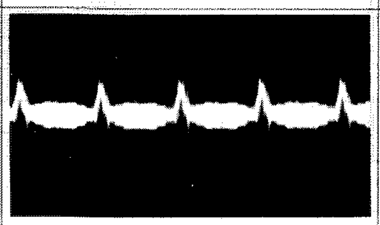

㉙ IC1301 6 Pin
(A-P.C. Board)
0.85Vp-p/50μs. div.

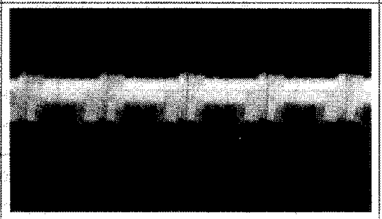

㉚ Q612 — E
(A-P.C. Board)
0.85Vp-p/50μs. div.

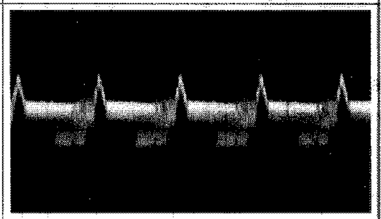

㉛ TPB33 (B-P.C. Board)
0.2Vp-p/50μs. div.

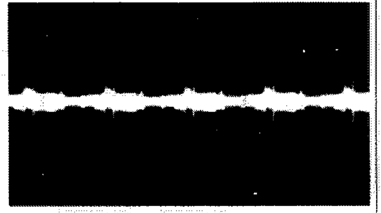

㉜ TPB34 (B-P.C. Board)
0.2Vp-p/50μs. div.

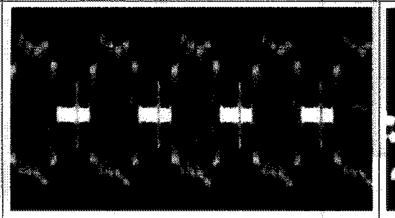

㉝ IC503 3 Pin
(B-P.C. Board)
0.48Vp-p/50μs. div.

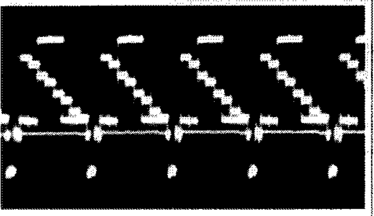

㉞ IC5305 1 Pin
(B-P.C. Board)
0.13Vp-p/50μs. div.

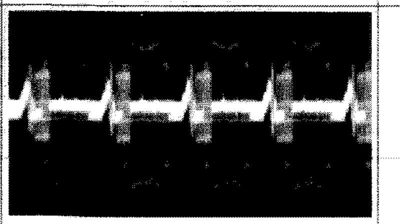

㉟ IC5303 4 Pin
(B-P.C. Board)
0.08Vp-p/50μs. div.

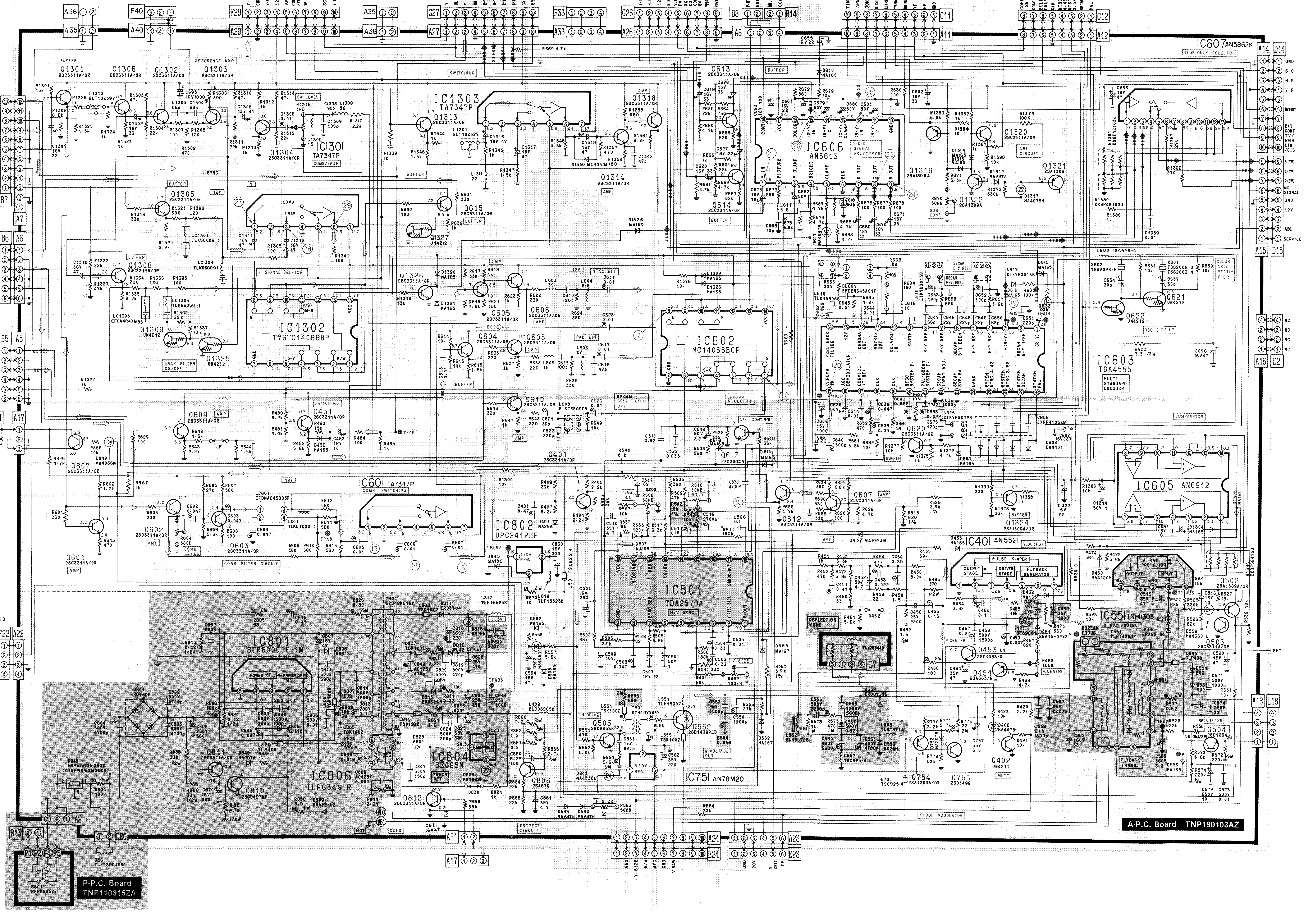

(36) IC5305 8 Pin
(B-P.C. Board)
0.08Vp-p/50μs. div.


(37) IC5305 11 Pin
(B-P.C. Board)
0.08Vp-p/50μs. div.

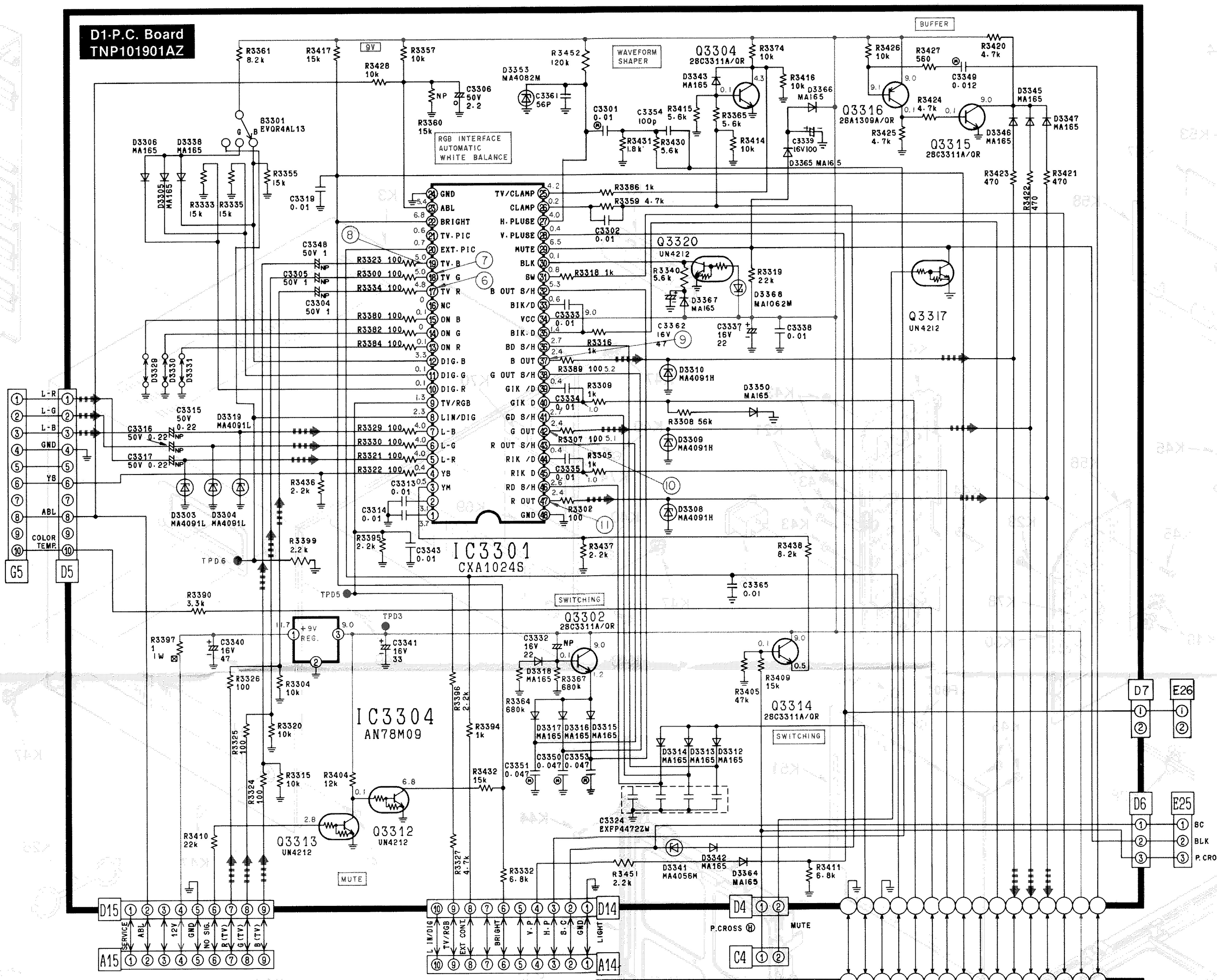

(38) IC5307 7 Pin
(B-P.C. Board)
0.12Vp-p/50μs. div.

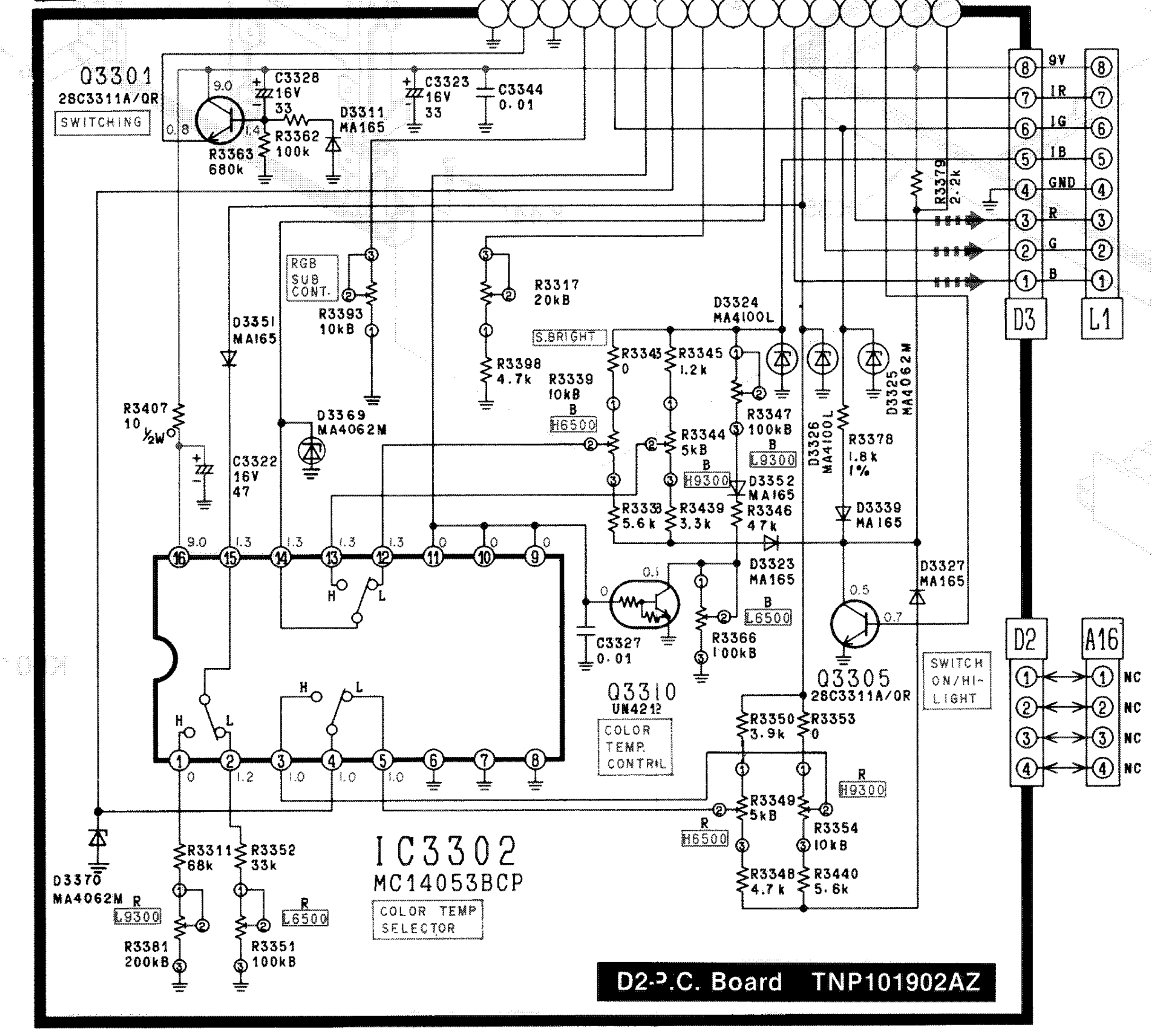

(39) Q5305 — B
(B-P.C. Board)
0.46Vp-p/50μs. div.

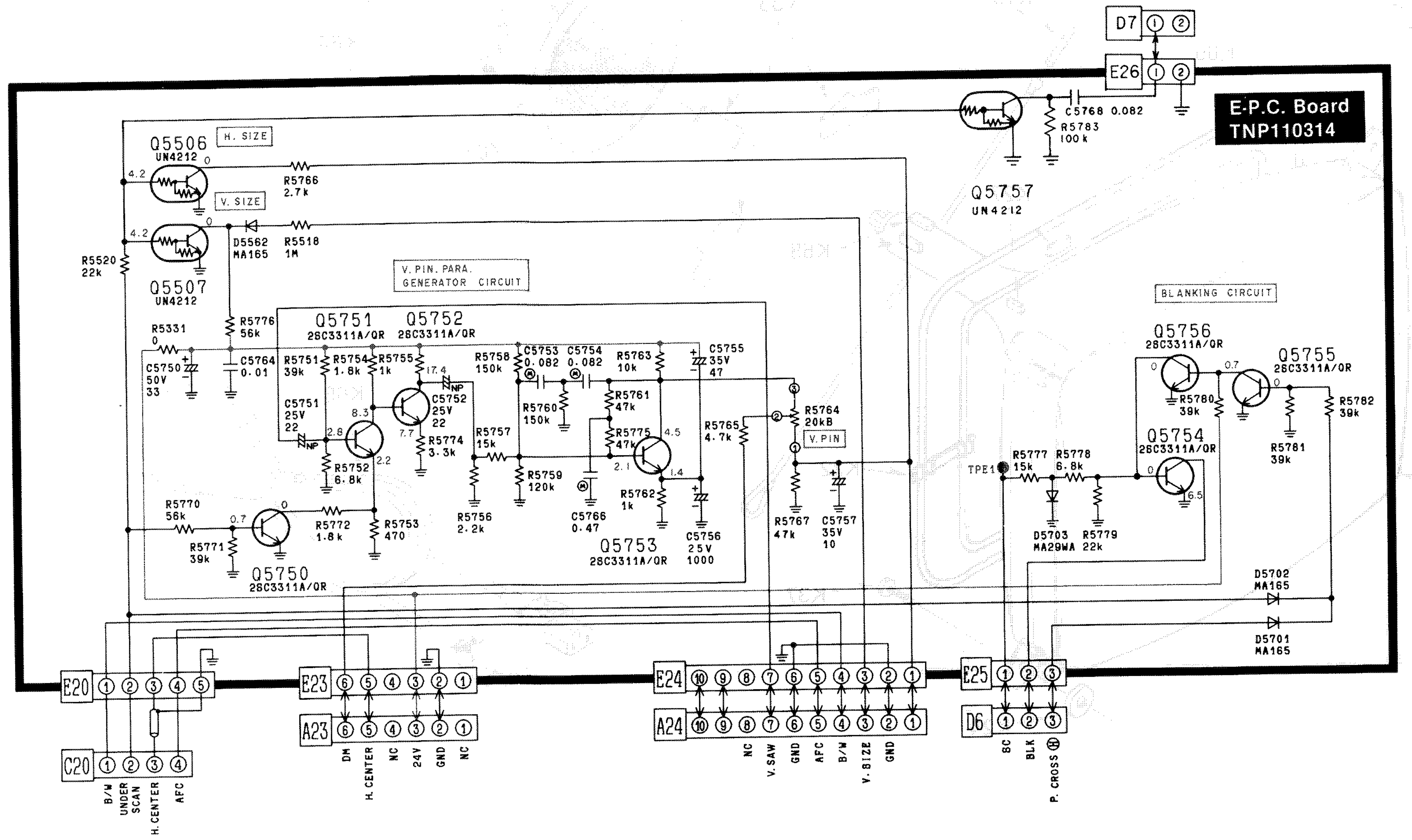

(40) Q5315 — B
(B-P.C. Board)
0.12Vp-p/50μs. div.

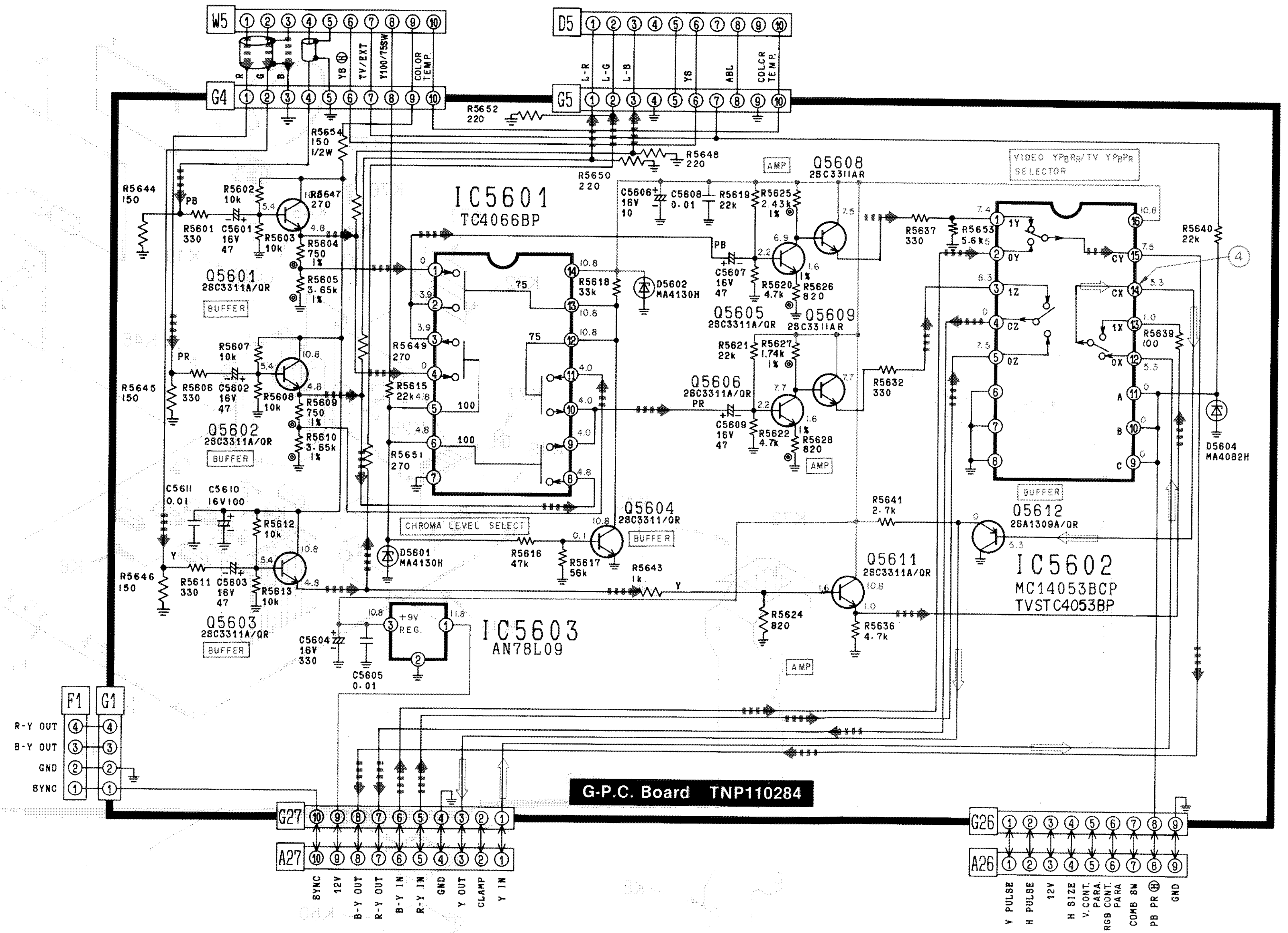

IC1303 TA7347P
IC1301 TA7347P COMB/TRAP
IC1302 TV5TC14066BP
Y SIGNAL SELECTOR
IC606 AN5613 VIDEO SIGNAL PROCESSOR
IC607 AN5862K BLUE ONLY SELECTOR
IC602 MC14066BCP
CHROMA SELECTOR
IC603 TDA4555 MULTI STANDARD DECODER
IC605 AN6912 COMPARATOR
IC601 TA7347P COMB SWITCHING
COMB FILTER CIRCUIT
IC802 UPC2412HF
IC501 TDA2579A H/V SYNC.
IC401 AN5521 V.OUTPUT
PULSE SHAPER
OUTPUT STAGE
DRIVER STAGE
FLYBACK GENERATOR
DEFLECTION YOKE
IC551 TNH11303 X-RAY PROTECT
X-RAY PROTECTOR
SCREEN FOCUS
FLYBACK TRANS.
IC801 STR60001F51M
POWER CTL
ERROR DET.
IC806 TLP634G,R
IC804 SE095N
PROTECT CIRCUIT
IC751 AN78M20
H.VOLTAGE OUT
DIODE MODULATOR
TRAP FILTER ON/OFF
SECAM BELL FILTER BPF
AFC CONTROL
PAL BPF
NTSC BPF
OSC CIRCUIT
COLOR AXIS RECTIFIER
ABL CIRCUIT
SUB CONT
HOT
COLD
EHT
A-P.C. Board TNP190103AZ
P-P.C. Board TNP110315ZA
DEG TLK139019N1
S801 ESB99857Y

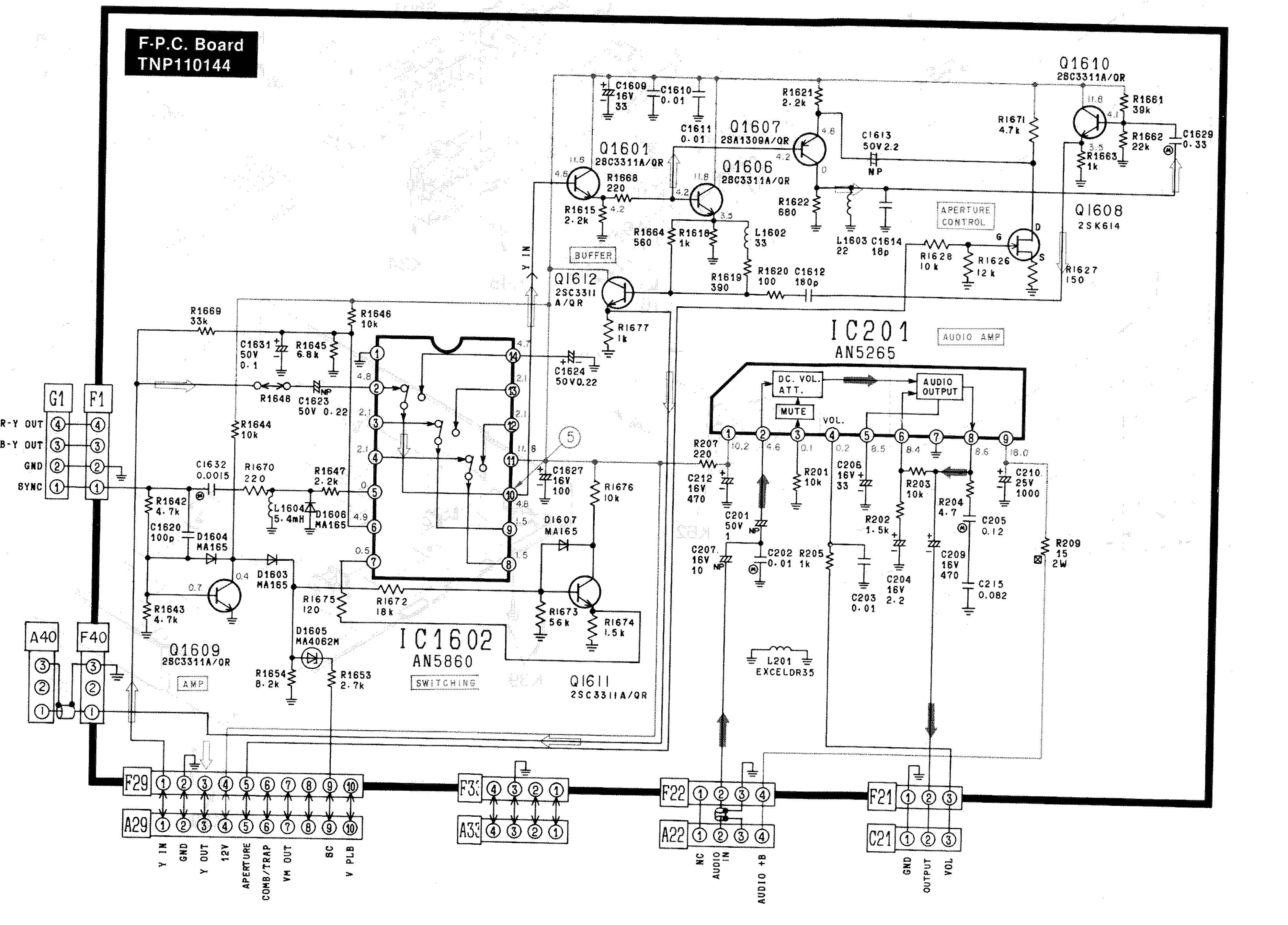
W-P.C. Board
TNP101904
C-P.C. Board
TNP101900
B-P.C. Board
TNP101899
L-P.C. Board
TNP101903AB
LINE A
S-VIDEO
LINE B
VTR SP
RGB DRIVE
BUFFER
SPEAKER
EAS7D09A
H.P. JACK
JK5222
IC5301
AN608P
IC5302
TA7347P
SYNC. SELECTOR
IC5303
MC14052BCP
or TC4052BP
INPUT SELECTOR
IC5304
AN5860
PUSE CROSS OP.
IC5311
AN608P
IC5306
AN614
IC5308
AN5862K
SWITCHING
IC5307
AN614
IC5310
AN78L09
IC5309
AN5862K
IC5305
MC14066BCP
or TC4066BP
CHROMINANCE SELECTOR
IC5401
LM1881N
SYNC. SEPARATOR
IC5404
BA236B
H. OUTPUT
IC5403
BA236B
V. OUTPUT
IC5402
MC14066BCP
or TC4066BP
SWITCHING
IC5405
SN74LS86AN
COMPOSITE SYNC. GENERATOR
WAVEFORM SHAPER
IH DL CHROMA
3/4H DL CHROMA
NTSC IH DELAY
PAL/SECAM M-NTSC 3/4H DELAY
NTSC 3/4H DELAY
PAL/NTSC CONTROL
F8P CONTROL
R DRIVE AMP
G DRIVE AMP
B DRIVE AMP
M34JEF037X/C
TJB1A5050
SCREEN
FOCUS


D1-P.C. Board
TNP101901AZ
IC3301
CXA1024S
IC3304
AN78M09
Q3304
Q3315
Q3316
Q3317
UN4212
Q3320
UN4212
Q3302
Q3314
Q3312
UN4212
Q3313
UN4212
BUFFER
WAVEFORM SHAPER
RGB INTERFACE AUTOMATIC WHITE BALANCE
SWITCHING
MUTE
G5
D5
D15
A15
D14
A14
D4
C4
D7
E26
D6
E25
P.CROSS
MUTE
BC
BLK
P.CROSS


D2-P.C. Board TNP101902AZ
IC3302
MC14053BCP
COLOR TEMP SELECTOR
Q3301
SWITCHING
Q3310
UN4212
COLOR TEMP. CONTROL
Q3305
SWITCH ON/HI-LIGHT
RGB SUB CONT.
S.BRIGHT
D3
L1
D2
A16


E-P.C. Board
TNP110314
Q5506
UN4212
H. SIZE
V. SIZE
Q5507
UN4212
Q5757
UN4212
V.PIN.PARA. GENERATOR CIRCUIT
Q5751
Q5752
Q5753
Q5750
BLANKING CIRCUIT
Q5756
Q5755
Q5754
V.PIN
E20
C20
E23
A23
E24
A24
E25
D6
D7
E26
B/W
UNDER SCAN
H.CENTER
AFC
H.CENTER
24V
GND
NC
V.SAW
AFC
B/W
V.SIZE
BC
BLK
P.CROSS


G-P.C. Board TNP110284
IC5601
TC4066BP
IC5602
MC14053BCP
TVSTC4053BP
IC5603
AN78L09
Q5601
Q5602
Q5603
Q5604
Q5605
Q5606
Q5608
Q5609
Q5611
Q5612
BUFFER
AMP
CHROMA LEVEL SELECT
VIDEO YPbPr/TV YPbPr SELECTOR
W5
G4
D5
G5
F1
G1
R-Y OUT
B-Y OUT
GND
SYNC
G27
A27
G26
A26
SYNC
12V
B-Y OUT
R-Y OUT
B-Y IN
R-Y IN
GND
Y OUT
CLAMP
Y IN
V PULSE
H PULSE
12V
H SIZE
V SIZE
V.PARA
RGB SW
COMB SW
PB SW
GND


F-P.C. Board
TNP110144
IC201
AN5265
AUDIO AMP
IC1602
AN5860
SWITCHING
Q1601
Q1606
Q1607
Q1608
2SK614
Q1609
Q1610
Q1611
Q1612
BUFFER
APERTURE CONTROL
AMP
DC VOL ATT.
AUDIO OUTPUT
MUTE
VOL.
L201
EXCEL0R35
G1
F1
R-Y OUT
B-Y OUT
GND
SYNC
A40
F40
F29
A29
F33
A33
F22
A22
F21
C21
Y IN
GND
Y OUT
12V
APERTURE
COMB/TRAP
VM OUT
B/W
BC
V PLS
NC
AUDIO IN
AUDIO +B
GND
OUTPUT
VOL

EXPLODED VIEWS

Replacement Parts List

Important Safety Notice

Components identified by the International symbol ⚠ have special characteristics important for safety. When replacing any of these components use only manufacture's specified Parts.

Abbreviation of Part Name and Description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon F : Fuse M : Metal Oxide Metal Film S : Solid W : Wire Wound	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic E : Electrolytic P : Polyester PP : Polypropylene S : Styrol T : Tantalum	C : ±0.25 pF D : ±0.5 pF F : ±1 pF J : ±5% K : ±10% L : ±15% M : ±20% P : ±100%,–0% Z : ±80%,–20%

Note: For M○○of Ref. No., not indicate illustration of it part on "Exploded Views".

	Ref.No.	Part No.	Description
		CABINET & MAIN PARTS	
	K1	TKE1316A01	ESCUTCHEON
	K2	TKU589100	REAR COVER
	K3	TKC131127	METAL CABINET
	K4	TKP1313851-1	TERMINAL BOARD PANEL
	K5	TKX137000	BOTTOM CABINET
	M37	TKK139611	CRT BOSS
	K7	TKK69248-7	HANDLE
	K8	TKZ138171-1	CHASSIS BRACKET(R)
	K9	TKZ138172-1	CHASSIS BRACKET(L)
	K10	TBM130560	MODEL PLATE
	K11	TBM130598	AC LABEL
	K12	TBM130599	VR LABEL
	K13	TBM130634	FOCUS LABEL
	K14	TBX1354101	KNOB(TV SYSTEM SELECTOR)
	K15	TBX8750101	KNOB(VR)
	K16	TBX8780300	PUSH BUTTON(BLACK)
	K17	TBX8780500	POWER BUTTON
	K18	TES1208	COIL SPRING
	K19	TMM15404-1	SPACER RING
	M38	TMM15412-1	CLAMPER
	M49	TMM15423-1	LEAD CLAMPER (B)
	M39	TMM15433	CLAMPER
	K22	TMM15434	CLAMPER
	K23	TMM15442	HOLDER
	K24	TMM15525	RUBBER CUSHION
	K25	TMM16452	ANODE CLAMPER
	K27	TMM17514	DY WEDGE
	M50	TMM6428-1	CLAMPER
	K28	TMM6463	CLAMPER
	M40	TMM7468	CLAMPER
	M41	TMM76429-1	PURSE LOCK
	K31	TMM76440-1	CLAMPER
	M51	TMM81416	CORD BAND(SMALL)
	K32	TMK33532	BARRIER(POWER SW)
	K33	TXFMK01H55	PARMALLOY
	K34	TMW13110	FRONT BRACKET
	K35	TMX13101	CHASSIS BRACKET(M)
	K36	TMX13102	PC BOARD BRACKET
	K37	THT1024R	SCREW
	M42	XTB4+10A	SCREW
	K39	XTB4+10J	SCREW
	K40	XTB4+15A	SCREW
	K41	XTB4+15AFZ	SCREW
	K42	XTV3+10A	SCREW
	K44	XTV3+12A	SCREW
	K45	XTW3+10T	SCREW
	K46	XYA4+EF8	SCREW
	K47	XYA4+EF8FC	SCREW
	K49	XYN3+C8	SCREW
⚠	K50	M34JEF037X/C	PICTURE TUBE
	K51	TNP101899	PC BOARD W/COMPONENT(B)
	K52	TNP101900	PC BOARD W/COMPONENT(C)
	K53	TNP101901AZ	PC BOARD W/COMPONENT(D1)
	K54	TNP101902AZ	PC BOARD W/COMPONENT(D2)
	K55	TNP101903AB	PC BOARD W/COMPONENT(L)
	K56	TNP101904	PC BOARD W/COMPONENT(W)
	K57	TNP110144	PC BOARD W/COMPONENT(F)
	K58	TNP110284	PC BOARD W/COMPONENT(G)
	K59	TNP110314	PC BOARD W/COMPONENT(E)
	K60	TNP110315ZA	PC BOARD W/COMPONENT(P)
	K61	TNP190103AZ	PC BOARD W/COMPONENT(A)
	K62	EAS7D09A	SPEAKER
⚠	K63	TLY26344D	DEFLECTION YOKE
	K64	TLC2061	CONVERGENCE COIL
⚠	K65	TLK139019N1	DEGAUSS COIL
⚠	K66	TSX3164	POWER CORD
	M1	TJS169950	3P CONNECTOR
⚠	K67	TJS5A9990	AC SOCKET
	M2	TXAJTA22MJQZ	4P CONNECTOR ASSY(A22-F22
	M3	TXAJTA35MDL9	2P CONNECTOR ASSY(A35-A36
	M4	TXAJTA40MJLZ	3P CONNECTOR ASSY(A40-F40

	Ref.No.	Part No.	Description
	M52	TXAJTA51MJLZ	3P CONNECTOR ASSY(A51-A17
	M5	TXAJTA8MJLZ	2P2P CONNECTOR ASSY (A8-B8)
	M6	TXAJTB11MJLZ	3P CONNECTOR ASSY(B11)
	M7	TXAJTC1MJLZ	2P CONNECTOR ASSY(C1-SP)
	M8	TXAJTC11MJLZ	10P CONNECTOR ASSY (C11-A11)
	M9	TXAJTC12MJLZ	8P CONNECTOR ASSY(C12-A12
	M10	TXAJTC20MJLZ	4P CONNECTOR ASSY(C20-E20
	M11	TXAJTC21MJLZ	3P CONNECTOR ASSY(C21-F21
	M12	TXAJTC4MJLZ	2P CONNECTOR ASSY(C4-D4)
	M13	TXAJTC9MJLZ	8P CONNECTOR ASSY(C9-B9)
	M53	TXAJTD7MJLZ	2P CONNECTOR ASSY(D7-E26)
	M14	TXFJT01DAZ	1P GROUND READ(CRT)
⚠	F801	XBA1F40NU100	FUSE
	K68	TSN85511	MAGNET
	M15	TPC1311101	OUTER CARTON
	M16	TPD131132	FILLER
	M17	TPD132129	FILLER
	M18	TPD139327	FILLER
	M19	TQE6615	SET COVER
	M20	XZBT6506	BAG
	M21	TQB510097	INSTRUCTION BOOK
	M22	TQB817002-1	SAFETY SHEET
	M23	TQD1712009-1	PASS CARD
	M24	TQD6715023	SERVICE CENTER LIST
	M25	TQD6718063-1	WARRANTY CARD
	K69	TQF14279	TOTAL WARNING LABEL
	K70	TQF34585	CRT LABEL
	K71	TQF37204	SERIAL NO.LABEL
	K72	TQF57277	NHW LABEL
	K73	TQF85762	FUSE LABEL
	M26	TQF86202	SERIAL NO.LABEL
	K74	TQF87248	X.LABEL
	K75	TQF87256	WARNING LABEL
	I.C		
	IC201	AN5265	INTEGRATED CIRCUIT
	IC401	AN5521	INTEGRATED CIRCUIT
⚠	IC501	TDA2579A	INTEGRATED CIRCUIT
⚠	IC551	TNH11303	CIRCUIT BOARD(HIC)
	IC601	TA7347P	INTEGRATED CIRCUIT
	IC602	MC14066BCP	INTEGRATED CIRCUIT
	IC603	TDA4555	INTEGRATED CIRCUIT
	IC605	AN6912	INTEGRATED CIRCUIT
	IC606	AN5613	INTEGRATED CIRCUIT
	IC607	AN5862K	INTEGRATED CIRCUIT
	IC751	AN78M20	INTEGRATED CIRCUIT
⚠	IC801	STR60001F51M	INTEGRATED CIRCUIT
	IC802	UPC2412HF	INTEGRATED CIRCUIT
⚠	IC804	SE095N	INTEGRATED CIRCUIT
⚠	IC806	TLP634GR	INTEGRATED CIRCUIT
	IC1301	TA7347P	INTEGRATED CIRCUIT
	IC1302	TVSTC4066BP	INTEGRATED CIRCUIT
	IC1303	TA7347P	INTEGRATED CIRCUIT
	IC1602	AN5860	INTEGRATED CIRCUIT
	IC3301	CXA1024S	INTEGRATED CIRCUIT
	IC3302	MC14053BCP	INTEGRATED CIRCUIT
	IC3304	AN78M09	INTEGRATED CIRCUIT
	IC5301	AN608P	INTEGRATED CIRCUIT
	IC5302	TA7347P	INTEGRATED CIRCUIT
	IC5303	MC14052BCP	INTEGRATED CIRCUIT
	IC5304	AN5860	INTEGRATED CIRCUIT
	IC5305	MC14066BCP	INTEGRATED CIRCUIT

Ref.No.	Part No.	Description
IC5306	AN614	INTEGRATED CIRCUIT
IC5307	AN614	INTEGRATED CIRCUIT
IC5308	AN5862K	INTEGRATED CIRCUIT
IC5309	AN5862K	INTEGRATED CIRCUIT
IC5310	AN78L09	INTEGRATED CIRCUIT
IC5311	AN608P	INTEGRATED CIRCUIT
IC5401	LM1881N	INTEGRATED CIRCUIT
IC5402	MC14066BCP	INTEGRATED CIRCUIT
IC5403	TVSBA236B	INTEGRATED CIRCUIT
IC5404	TVSBA236B	INTEGRATED CIRCUIT
IC5405	SN74LS86AN	INTEGRATED CIRCUIT
IC5601	MC14066BCP	INTEGRATED CIRCUIT
IC5602	MC14053BCP	INTEGRATED CIRCUIT
IC5603	AN78L09	INTEGRATED CIRCUIT
TRANSISTORS		
Q351	2SC1685Q	TRANSISTOR
Q352	2SC1685Q	TRANSISTOR
Q353	2SC1685Q	TRANSISTOR
Q354	2SC3942RL	TRANSISTOR
Q355	2SC3942RL	TRANSISTOR
Q356	2SC3942RL	TRANSISTOR
Q357	2SC3942RL	TRANSISTOR
Q358	2SC3942RL	TRANSISTOR
Q359	2SC3942RL	TRANSISTOR
Q360	2SA1605RL	TRANSISTOR
Q361	2SA1605RL	TRANSISTOR
Q362	2SA1605RL	TRANSISTOR
Q363	2SA1605RL	TRANSISTOR
Q364	2SA1605RL	TRANSISTOR
Q365	2SA1605RL	TRANSISTOR
Q401	2SC3311AQ	TRANSISTOR
Q402	UN4211	TRANSISTOR
Q451	2SC3311AQ	TRANSISTOR
Q453	2SC1383R	TRANSISTOR
Q454	2SA683R	TRANSISTOR
Q502	2SA1309AQ	TRANSISTOR
Q503	2SC3311AQ	TRANSISTOR
Q504	2SD1264RL	TRANSISTOR
Q505	2SC2653HLB	TRANSISTOR
Q552	2SD1439PLB	TRANSISTOR
Q601	2SC3311AQ	TRANSISTOR
Q602	2SC3311AQ	TRANSISTOR
Q603	2SC3311AQ	TRANSISTOR
Q604	2SC3311AQ	TRANSISTOR
Q605	2SC3311AQ	TRANSISTOR
Q606	2SC3311AQ	TRANSISTOR
Q607	2SC3311AQ	TRANSISTOR
Q608	2SC3311AQ	TRANSISTOR
Q609	2SC3311AQ	TRANSISTOR
Q610	2SC3311AQ	TRANSISTOR
Q612	2SC3311AQ	TRANSISTOR
Q613	2SC3311AQ	TRANSISTOR
Q614	2SC3311AQ	TRANSISTOR
Q615	2SC3311AQ	TRANSISTOR
Q617	2SC3311AQ	TRANSISTOR
Q620	2SC3311AQ	TRANSISTOR
Q621	UN4212	TRANSISTOR
Q622	UN4212	TRANSISTOR
Q754	2SA1309AQ	TRANSISTOR
Q755	2SD1499QLB	TRANSISTOR
Q806	2SA879	TRANSISTOR

	Ref.No.	Part No.	Description
	Q807	2SC3311AQ	TRANSISTOR
⚠	Q810	2SC2497AR	TRANSISTOR
⚠	Q811	2SC3311AQ	TRANSISTOR
	Q812	2SC3311AQ	TRANSISTOR
	Q1301	2SC3311AQ	TRANSISTOR
	Q1302	2SC3311AQ	TRANSISTOR
	Q1303	2SC3311AQ	TRANSISTOR
	Q1304	2SC3311AQ	TRANSISTOR
	Q1305	2SC3311AQ	TRANSISTOR
	Q1306	2SC3311AQ	TRANSISTOR
	Q1308	2SC3311AQ	TRANSISTOR
	Q1309	UN4212	TRANSISTOR
	Q1313	2SC3311AQ	TRANSISTOR
	Q1314	2SC3311AQ	TRANSISTOR
	Q1318	2SC3311AQ	TRANSISTOR
	Q1319	2SA1309AQ	TRANSISTOR
	Q1320	2SC3311AQ	TRANSISTOR
	Q1321	2SA1309AQ	TRANSISTOR
	Q1322	2SA1309AQ	TRANSISTOR
	Q1324	2SA1309AQ	TRANSISTOR
	Q1325	UN4212	TRANSISTOR
	Q1326	2SC3311AQ	TRANSISTOR
	Q1327	UN4212	TRANSISTOR
	Q1601	2SC3311AQ	TRANSISTOR
	Q1606	2SC3311AQ	TRANSISTOR
	Q1607	2SA1309AQ	TRANSISTOR
	Q1608	2SC3311AR	TRANSISTOR
	Q1609	2SC3311AQ	TRANSISTOR
	Q1610	2SC3311AQ	TRANSISTOR
	Q1611	2SC3311AQ	TRANSISTOR
	Q1612	2SC3311AQ	TRANSISTOR
	Q3301	2SC3311AQ	TRANSISTOR
	Q3302	2SC3311AQ	TRANSISTOR
	Q3304	2SC3311AQ	TRANSISTOR
	Q3305	2SC3311AQ	TRANSISTOR
	Q3310	UN4212	TRANSISTOR
	Q3312	UN4212	TRANSISTOR
	Q3313	UN4212	TRANSISTOR
	Q3314	2SC3311AQ	TRANSISTOR
	Q3315	2SC3311AQ	TRANSISTOR
	Q3316	2SA1309AQ	TRANSISTOR
	Q3317	UN4212	TRANSISTOR
	Q3320	UN4212	TRANSISTOR
	Q4201	2SA1309AQ	TRANSISTOR
	Q4202	2SC3311AQ	TRANSISTOR
	Q4301	2SC3311AQ	TRANSISTOR
	Q4302	2SC3311AQ	TRANSISTOR
	Q5100	2SC3311AQ	TRANSISTOR
	Q5101	UN4111	TRANSISTOR
	Q5201	2SC3311AQ	TRANSISTOR
	Q5202	2SA1309AQ	TRANSISTOR
	Q5203	2SC3311AQ	TRANSISTOR
	Q5300	2SC3311AQ	TRANSISTOR
	Q5301	2SC3311AQ	TRANSISTOR
	Q5302	2SC3311AQ	TRANSISTOR
	Q5303	2SC3311AQ	TRANSISTOR
	Q5304	2SC3311AQ	TRANSISTOR
	Q5305	2SC3311AQ	TRANSISTOR
	Q5306	2SC3311AQ	TRANSISTOR
	Q5307	2SC3311AQ	TRANSISTOR
	Q5308	2SC3311AQ	TRANSISTOR
	Q5309	2SC3311AQ	TRANSISTOR
	Q5310	UN4213	TRANSISTOR
	Q5311	2SC3311AQ	TRANSISTOR
	Q5312	2SC3311AQ	TRANSISTOR
	Q5313	UN4213	TRANSISTOR
	Q5314	2SC3311AQ	TRANSISTOR
	Q5315	2SC3311AQ	TRANSISTOR
	Q5316	UN4212	TRANSISTOR
	Q5401	2SC3311AQ	TRANSISTOR
	Q5402	2SC3311AQ	TRANSISTOR
	Q5403	2SC3311AQ	TRANSISTOR
	Q5404	2SA1309AQ	TRANSISTOR
	Q5405	2SC3311AQ	TRANSISTOR
	Q5406	2SC3311AQ	TRANSISTOR
	Q5407	2SC3311AQ	TRANSISTOR
	Q5409	2SC3311AQ	TRANSISTOR
	Q5410	2SC3311AQ	TRANSISTOR
	Q5411	UN4213	TRANSISTOR
	Q5412	2SC3311AQ	TRANSISTOR
	Q5413	2SC3311AQ	TRANSISTOR
	Q5414	2SC3311AQ	TRANSISTOR
	Q5415	2SC3311AQ	TRANSISTOR
	Q5416	2SC3311AQ	TRANSISTOR
	Q5417	2SC3311AQ	TRANSISTOR
	Q5418	2SC3311AQ	TRANSISTOR
	Q5420	2SC3311AQ	TRANSISTOR
	Q5421	2SA1309AQ	TRANSISTOR
	Q5506	UN4212	TRANSISTOR
	Q5507	UN4212	TRANSISTOR
	Q5601	2SC3311AQ	TRANSISTOR
	Q5602	2SC3311AQ	TRANSISTOR
	Q5603	2SC3311AQ	TRANSISTOR
	Q5604	2SC3311AQ	TRANSISTOR
	Q5605	2SC3311AQ	TRANSISTOR
	Q5606	2SC3311AQ	TRANSISTOR
	Q5608	2SC3311AQ	TRANSISTOR
	Q5609	2SC3311AQ	TRANSISTOR
	Q5611	2SC3311AQ	TRANSISTOR
	Q5612	2SA1309AQ	TRANSISTOR
	Q5750	2SC3311AQ	TRANSISTOR
	Q5751	2SC3311AQ	TRANSISTOR
	Q5752	2SC3311AQ	TRANSISTOR
	Q5753	2SC3311AQ	TRANSISTOR
	Q5754	2SC3311AQ	TRANSISTOR
	Q5755	2SC3311AQ	TRANSISTOR
	Q5756	2SC3311AQ	TRANSISTOR
	Q5757	UN4212	TRANSISTOR
		DIODES	
	D351	MA167	DIODE
	D352	MA167	DIODE
	D353	MA167	DIODE
	D354	MA167	DIODE
	D355	MA167	DIODE
	D356	MA167	DIODE
	D357	MA165	DIODE
	D358	MA165	DIODE
	D359	MA165	DIODE
	D360	EU01N	DIODE
	D361	EU01N	DIODE
	D362	EU01N	DIODE
	D401	MA29A	DIODE
	D402	MA4075H	DIODE

	Ref.No.	Part No.	Description
	D451	ERA1502	DIODE
	D455	MA165	DIODE
	D456	MA165	DIODE
	D457	MA1043M	DIODE
	D460	MA4120M	DIODE
	D462	MA165	DIODE
	D502	MA165	DIODE
	D503	MA4051M	DIODE
	D505	MA165	DIODE
	D507	MA165	DIODE
⚠	D551	TVSEU2	DIODE
⚠	D552	ERD07-15	DIODE
⚠	D553	TVSRU2AM	DIODE
⚠	D554	TVSEU2	DIODE
	D556	MA165	DIODE
⚠	D558	ERA22-04	DIODE
	D559	MA4360L	DIODE
	D562	MA167	DIODE
	D563	MA29TB	DIODE
	D564	MA29TB	DIODE
	D565	MA167	DIODE
	D607	MA4047M	DIODE
	D608	DAN401	DIODE
	D609	MA165	DIODE
	D610	MA165	DIODE
	D613	MA165	DIODE
	D614	MA165	DIODE
	D615	MA165	DIODE
	D616	MA165	DIODE
	D753	MA29TB	DIODE
⚠	D801	RBV608	DIODE
⚠	D805	TVSQB118	DIODE
⚠	D806	AU01Z	DIODE
⚠	D807	TVSEU2	DIODE
⚠	D809	ERA22-02	DIODE
⚠	D810	ERPW5B0M050D	POSISTOR
⚠	D811	ERD31-04	DIODE
⚠	D812	RL4Z	DIODE
⚠	D813	ERD31-04	DIODE
⚠	D815	TVSAG01	DIODE
⚠	D816	TVSSR2KN	DIODE
	D828	AS01	DIODE
⚠	D836	MA1062H	DIODE
⚠	D840	MA29TA	DIODE
	D842	MA4036M	DIODE
	D843	MA4330L	DIODE
	D845	MA182	DIODE
	D1304	MA165	DIODE
	D1305	MA165	DIODE
	D1312	MA29TA	DIODE
	D1314	MA165	DIODE
	D1315	MA165	DIODE
	D1317	MA4075M	DIODE
	D1320	MA165	DIODE
	D1321	MA165	DIODE
	D1322	MA165	DIODE
	D1323	MA165	DIODE
	D1326	MA165	DIODE
	D1330	MA4051M	DIODE
	D1601	MA165	DIODE
	D1603	MA165	DIODE
	D1604	MA165	DIODE
	D1605	MA4062M	DIODE
	D1606	MA165	DIODE
	D1607	MA165	DIODE
	D3303	MA4091L	DIODE
	D3304	MA4091L	DIODE
	D3305	MA165	DIODE
	D3306	MA165	DIODE
	D3308	MA4091H	DIODE
	D3309	MA4091H	DIODE
	D3310	MA4091H	DIODE
	D3311	MA165	DIODE
	D3312	MA165	DIODE
	D3313	MA165	DIODE
	D3314	MA165	DIODE
	D3315	MA165	DIODE
	D3316	MA165	DIODE
	D3317	MA165	DIODE
	D3318	MA165	DIODE
	D3319	MA4091L	DIODE
	D3323	MA165	DIODE
	D3324	MA4100L	DIODE
	D3325	MA4062M	DIODE
	D3326	MA4100L	DIODE
	D3327	MA165	DIODE
	D3338	MA165	DIODE
	D3339	MA165	DIODE
	D3341	MA4056M	DIODE
	D3342	MA165	DIODE
	D3343	MA165	DIODE
	D3345	MA165	DIODE
	D3346	MA165	DIODE
	D3347	MA165	DIODE
	D3350	MA165	DIODE
	D3351	MA165	DIODE
	D3352	MA165	DIODE
	D3353	MA4082M	DIODE
	D3364	MA165	DIODE
	D3365	MA165	DIODE
	D3366	MA165	DIODE
	D3367	MA165	DIODE
	D3368	MA1062M	DIODE
	D3369	MA4062M	DIODE
	D3370	MA4062M	DIODE
	D4301	OA90AG	DIODE
	D4302	MA165	DIODE
	D4303	MA165	DIODE
	D4304	MA165	DIODE
	D4305	MA165	DIODE
	D4306	MA165	DIODE
	D4307	MA4130H	DIODE
	D5106	LN31GCPUH	DIODE(LED)
	D5107	LN31GCPUH	DIODE(LED)
	D5108	LN31GCPUH	DIODE(LED)
	D5109	LN31GCPUH	DIODE(LED)
	D5110	LN31GCPUH	DIODE(LED)
	D5114	MA165	DIODE
	D5115	MA165	DIODE
	D5116	MA165	DIODE
	D5117	MA165	DIODE
	D5118	MA165	DIODE
	D5201	MA4100M	DIODE

	Ref.No.	Part No.	Description
	D5202	MA165	DIODE
	D5203	MA165	DIODE
	D5204	MA165	DIODE
	D5207	MA165	DIODE
	D5208	MA165	DIODE
	D5209	MA165	DIODE
	D5210	MA165	DIODE
	D5211	MA165	DIODE
	D5212	MA165	DIODE
	D5213	MA165	DIODE
	D5301	MA165	DIODE
	D5302	MA4091M	DIODE
	D5303	MA165	DIODE
	D5304	MA165	DIODE
	D5305	MA165	DIODE
	D5306	MA165	DIODE
	D5308	MA165	DIODE
	D5309	MA165	DIODE
	D5310	MA165	DIODE
	D5311	MA165	DIODE
	D5314	MA165	DIODE
	D5316	MA165	DIODE
	D5317	MA165	DIODE
	D5320	MA165	DIODE
	D5321	MA700	DIODE
	D5322	MA700	DIODE
	D5323	MA4030M	DIODE
	D5324	MA4030M	DIODE
	D5325	MA4130H	DIODE
	D5326	MA700	DIODE
	D5330	MA700	DIODE
	D5402	MA700	DIODE
	D5403	OA90AM	DIODE
	D5404	MA4030M	DIODE
	D5405	MA4047H	DIODE
	D5406	MA165	DIODE
	D5407	MA700	DIODE
	D5408	MA165	DIODE
	D5410	MA165	DIODE
	D5411	MA165	DIODE
	D5562	MA165	DIODE
	D5601	MA4130H	DIODE
	D5602	MA4130H	DIODE
	D5604	MA4082H	DIODE
	D5701	MA165	DIODE
	D5702	MA165	DIODE
	D5703	MA29WA	DIODE

COIL & TRANSFORMERS

	Ref.No.	Part No.	Description
	L201	EXCELDR35C	LC COMBINATION
	L351	TLT470K991K	PEAKING COIL
	L352	TLT470K991K	PEAKING COIL
	L353	TLT470K991K	PEAKING COIL
	L354	TLT390K991K	PEAKING COIL
	L355	TLT390K991K	PEAKING COIL
	L356	TLT390K991K	PEAKING COIL
	L402	ELC08D058	CHOKE COIL
	L501	TSC925-4	FERRITE CORE
	L551	TLH15907	COIL
⚠	L552	ELH5L726	COIL
⚠	L553	TLH13711	CHOKE COIL
	L554	TSK1002	FERRITE CORE
	L555	TSK1002-1	FERRITE CORE
⚠	L557	TSC925-4	FERRITE CORE
⚠	L560	TLP408	CHOKE COIL
	L601	TLK61008-1	DEGAUSS COIL
	L602	TSC925-4	FERRITE CORE
	L603	TLT390K991K	PEAKING COIL
	L604	TLT056K991	PEAKING COIL
	L605	TLT150K991K	PEAKING COIL
	L606	TLT270K991K	PEAKING COIL
	L608	EIK7ES007B	VIF COIL
	L611	TLT056K991	PEAKING COIL
	L615	EIK7EG012B	VIF COIL
	L616	TLK158066	DEGAUSS COIL
	L617	EIK7EG013B	VIF COIL
	L618	EIK7EG013B	VIF COIL
	L619	TLT100K991K	PEAKING COIL
	L701	TSC925-4	FERRITE CORE
⚠	L801	ELF18D650K	LINE FILTER
⚠	L802	ELF18D650K	LINE FILTER
⚠	L805	TSK1002	FERRITE CORE
⚠	L806	TSK1002	FERRITE CORE
⚠	L807	TSK1002	FERRITE CORE
⚠	L808	TSK1002	FERRITE CORE
	L812	TLP15523E	TRANS.
⚠	L815	TSK1002	FERRITE CORE
	L819	TLP15523E	TRANS.
⚠	L820	TLP408	CHOKE COIL
	L1301	ELT10Z327	DELAY LINE
	L1308	TLT560K991K	PEAKING COIL
	L1309	TLT150K991K	PEAKING COIL
	L1310	ELT10Z397	COIL
	L1311	TLT220K991K	PEAKING COIL
	L1602	TLT330K991K	PEAKING COIL
	L1603	TLT220K991K	PEAKING COIL
	L1604	TLT542K991K	PEAKING COIL
	L5302	TLU8R2K186	PEAKING COIL
	L5304	TLK158066	DEGAUSS COIL
	L5305	TLU8R2K186	PEAKING COIL
	L5306	TLU180J186	PEAKING COIL
	L5307	TLK158066	DEGAUSS COIL
	L5308	TLK61008-1	DEGAUSS COIL
	L5311	EFDEN645A11G	DELAY LINE
	L5312	EFDRM425A13A	CERAMIC FILTER
	L5313	EFDRM425B85A	CERAMIC FILTER
	L5314	TLT068K991K	PEAKING COIL
	L5316	TLT120K991K	PEAKING COIL
	L5317	EXCELDR35C	LC COMBINATION
	LC601	EFDMA645B85F	DELAY LINE
	LC1301	TLK66009-1	DEGAUSS COIL
	LC1303	TLK66056-1	DEGAUSS COIL
	LC1304	TLK66009-1	DEGAUSS COIL
	LC1305	EFCA4R43MB3	CERAMIC FILTER
	T501	ETH19Y70AY	TRANS.
⚠	T551	TLF14303F	FLYBACK TRANS
⚠	T801	ETS49K616V	TRANS.

CAPACITORS

	Ref.No.	Part No.	Description			
	C201	ECEA1HN010S	E	1UF		50V
	C202	ECQB1H103JF	P	0.01UF	J	50V
	C203	ECKF1H103ZF	C	0.01UF	Z	50V
	C204	ECEA1HGE2R2	E	2.2UF		50V

	Ref.No.	Part No.	Description			
	C205	ECQV1H124JZ	P	0.12UF	J	50V
	C206	ECEA1CGE330	E	33UF		16V
	C207	ECEA1CN100S	E	10UF		16V
	C209	ECEA1CU471	E	470UF		16V
	C210	ECEA1EU102	E	1000UF		25V
	C212	ECEA1CU471	E	470UF		16V
	C215	ECQV1H823JZ	P	0.082UF	J	50V
	C351	ECCF1H331J	C	330PF	J	50V
	C352	ECCF1H471J	C	470PF	J	50V
	C353	ECCF1H331J	C	330PF	J	50V
	C354	ECKF1H103ZF	C	0.01UF	Z	50V
	C355	ECKF1H103ZF	C	0.01UF	Z	50V
	C356	ECKF1H103ZF	C	0.01UF	Z	50V
	C357	ECCF1H101J	C	100PF	J	50V
	C358	ECCF1H101J	C	100PF	J	50V
	C359	ECCF1H101J	C	100PF	J	50V
⚠	C360	ECEA2EG4R7S	E	4.7UF		250V
	C361	ECEA1CGE100	E	10UF		16V
	C363	ECKD3D102KBN	C	1000PF	K	2KV
	C365	ECKD2H103PU	C	0.01UF	P	500V
	C401	ECQV1H474JZ	P	0.47UF	J	50V
	C451	ECQV1H474JZ	P	0.47UF	J	50V
	C452	ECEA1HFS4R7	E	4.7UF		50V
	C453	ECQB1H223JF	P	0.022UF	J	50V
	C454	ECQV1H394JZ	P	0.39UF	J	50V
	C455	ECQV1H154JZ	P	0.15UF	J	50V
	C456	ECEA1EU222	E	2200UF		25V
	C457	ECQV1H274JZ	P	0.27UF	J	50V
	C458	ECKD2H182KB2	C	1800PF	K	500V
	C459	ECQB1H473JF	P	0.047UF	J	50V
	C460	ECQV1H104JZ	P	0.1UF	J	50V
⚠	C461	ECEA1VGE471	E	470UF		35V
⚠	C462	ECEA1VU102	E	1000UF		35V
	C463	ECEA1CN100S	E	10UF		16V
	C464	ECEA1VU470	E	47UF		35V
	C501	ECEA1HU010	E	1UF		50V
	C503	ECQV1H334JZ	P	0.33UF	J	50V
	C504	ECQV1H334JZ	P	0.33UF	J	50V
	C505	ECKF1H103ZF	C	0.01UF	Z	50V
	C506	ECQV1H104JZ	P	0.1UF	J	50V
	C507	ECEA1CU220	E	22UF		16V
	C508	ECQV1H473JZ	P	0.047UF	J	50V
	C509	ECEA1HU010	E	1UF		50V
	C510	ECEA1VU4R7	E	4.7UF		35V
	C511	ECQV1H154JZ	P	0.15UF	J	50V
	C512	ECQP1H272JZ	PP	2700PF	J	50V
⚠	C515	ECEA1VU470	E	47UF		35V
	C516	ECEA1CU100	E	10UF		16V
	C517	ECEA1EGE222	E	2200UF		25V
	C518	ECQV1H824JZ	P	0.82UF	J	50V
	C520	ECEA1CU470	E	47UF		16V
	C522	ECQV1H333JZ	P	0.033UF	J	50V
	C525	ECEA1CU331	E	330UF		16V
	C530	ECQB1H472JF	P	4700PF	J	50V
	C550	ECQB1H102JF	P	1000PF	J	50V
	C551	ECKD3A821JBN	C	820PF	J	1KV
⚠	C553	ECKD3D152JBN	C	1500PF	J	2KV
⚠	C554	ECQV1H563JZ	P	0.056UF	J	50V
⚠	C555	ECKD2H222KB2	C	2200PF	K	500V
⚠	C557	ECWF2H824JN	PP	0.82UF	J	500V
⚠	C558	ECWH12H562JS	PP	5600PF	J	1.2KV
⚠	C559	ECKD3D182JBN	C	1800PF	J	2KV
⚠	C560	ECQM4562JZ	P	5600PF	J	400V
⚠	C561	ECQM4472JZ	P	4700PF	J	400V
⚠	C562	ECKD3D222JBN	C	2200PF	J	2KV
	C563	ECEA1VU221	E	220UF		35V
	C564	ECEA1CGE470	E	47UF		16V
⚠	C569	ECEA2CN3R3S	E	3.3UF		160V
	C571	ECKD2H102KB2	C	1000PF	K	500V
	C572	ECEA2EGE100	E	10UF		250V
	C573	ECKD2H103ZU	C	0.01UF	Z	500V
⚠	C574	ECEA2EGE330	E	33UF		250V
	C600	ECEA1CU102	E	1000UF		16V
	C602	ECQV1H473JZ	P	0.047UF	J	50V
	C603	ECQV1H473JZ	P	0.047UF	J	50V
	C604	ECQV1H473JZ	P	0.047UF	J	50V
	C605	ECQB1H103JF	P	0.01UF	J	50V
	C606	ECQB1H103JF	P	0.01UF	J	50V
	C607	ECQB1H103JF	P	0.01UF	J	50V
	C610	ECCF1H121JC	C	120PF	J	50V
	C611	ECQB1H103JF	P	0.01UF	J	50V
	C612	ECEA1HN2R2S	E	2.2UF		50V
	C613	ECKF1H103ZF	C	0.01UF	Z	50V
	C614	ECKF1H103ZF	C	0.01UF	Z	50V
	C615	ECCF1H101JC	C	100PF	J	50V
	C616	ECCF1H470JC	C	47PF	J	50V
	C617	ECQB1H103JF	P	0.01UF	J	50V
	C618	ECCF1H101J	C	100PF	J	50V
	C619	ECEA1CKN330	E	33UF		16V
	C620	ECEA1CKN330	E	33UF		16V
	C621	ECCF1H300JC	C	30PF	J	50V
	C622	ECCF1H221JC	C	220PF	J	50V
	C623	ECQB1H103JF	P	0.01UF	J	50V
	C626	ECEA1CKN330	E	33UF		16V
	C627	ECEA1CKN330	E	33UF		16V
	C628	ECQB1H103JF	P	0.01UF	J	50V
	C632	ECKF1H102KB	C	1000PF	K	50V
	C633	ECQB1H223JZ	P	0.022UF	J	50V
	C634	TCRHA030E11	TRIMMER CAPACITOR			
	C636	ECQV1H334JZ	P	0.33UF	J	50V
	C637	TCRHA030E11	TRIMMER CAPACITOR			
	C638	ECQV1H473JZ	P	0.047UF	J	50V
	C639	ECEA1HN010S	E	1UF		50V
	C640	ECQB1H152JF	P	1500PF	J	50V
	C642	ECQB1H223JF	P	0.022UF	J	50V
	C643	ECQB1H223JF	P	0.022UF	J	50V
	C644	ECKF1H103ZF	C	0.01UF	Z	50V
	C645	ECKF1H103ZF	C	0.01UF	Z	50V
	C646	ECCF1H220J	C	22PF	J	50V
	C647	ECCF1H680J	C	68PF	J	50V
	C648	ECCF1H221J	C	220PF	J	50V
	C649	ECCF1H220J	C	22PF	J	50V
	C650	ECCF1H680J	C	68PF	J	50V
	C651	ECCF1H221J	C	220PF	J	50V
	C652	ECCF1H121JC	C	120PF	J	50V
	C653	ECCF1H121JC	C	120PF	J	50V
	C655	ECEA1CU220	E	22UF		16V
	C656	EXFP4103ZW	CR COMBINATION			
	C661	ECQV1H224JZ	P	0.22UF	J	50V
	C666	ECEA1CU470	E	47UF		16V
	C667	ECEA1CN220S	E	22UF		16V
	C668	ECCF1H100DC	C	10PF	D	50V
	C669	ECEA1ASN330	E	33UF		10V
	C670	ECEA1ASN330	E	33UF		10V
	C671	ECEA1ASN330	E	33UF		10V

	Ref.No.	Part No.	Description			
	C673	ECEA1CN100S	E	10UF		16V
	C675	ECCF1H121JC	C	120PF	J	50V
	C679	ECEA1HGN010	E	1UF		50V
	C680	ECEA1HGN010	E	1UF		50V
	C681	ECEA1HGN010	E	1UF		50V
	C682	ECEA1HU010	E	1UF		50V
	C687	ECEA1CU100	E	10UF		16V
	C692	ECEA1CU330	E	33UF		16V
	C693	ECEA1CU101	E	100UF		16V
	C695	ECEA1CU102	E	1000UF		16V
	C696	ECEA1CU470	E	47UF		16V
	C697	ECEA1CU221	E	220UF		16V
	C757	ECEA35W3R5Z	E	3.5UF		35V
⚠	C802	ECKD2H472PU	C	4700PF	P	500V
⚠	C804	ECKD2H472PU	C	4700PF	P	500V
⚠	C805	ECKD2H472PU	C	4700PF	P	500V
⚠	C806	ECOS2DG561N	E	560UF		200V
⚠	C807	ECEA1CGE470	E	47UF		16V
⚠	C809	ECKD2H391KB2	C	390PF	K	500V
⚠	C811	ECKD2H391KB2	C	390PF	K	500V
⚠	C813	ECQE2104KF	P	0.1UF	K	200V
⚠	C814	ECKD2H182KB2	C	1800PF	K	500V
⚠	C815	ECQV1H474JZ	P	0.47UF	J	50V
⚠	C818	ECES2CG221	E	220UF		160V
	C819	ECKD2H471KB2	C	470PF	K	500V
	C820	ECKD2H391KB2	C	390PF	K	500V
⚠	C821	ECEA1EGE471	E	470UF		25V
	C824	ECKD2H391KB2	C	390PF	K	500V
⚠	C825	ECEA1VGE331	E	330UF		35V
⚠	C826	ECEA1EF471	E	470UF		25V
⚠	C829	ECKDNS102MB	C	1000PF	M	AC125V
	C830	ECEA1CGE331	E	330UF		16V
⚠	C833	ECKD2H103ZU	C	0.01UF	Z	500V
⚠	C835	ECKD2H102KB2	C	1000PF	K	500V
⚠	C837	ECQM2682JZ	P	6800PF	J	200V
⚠	C844	ECEA1EGE102	E	1000UF		25V
⚠	C845	ECQV1H273JZ	P	0.027UF	J	50V
⚠	C846	ECQB1H123JZ	P	0.012UF	J	50V
	C847	ECKD2H151KB2	C	150PF	K	500V
⚠	C849	ECKDNS471MB	C	470PF	M	AC125V
⚠	C852	ECKF1H681KB	C	680PF	K	50V
	C860	ECEA0JU101	E	100UF		6.3V
	C861	ECEA1VGE4R7	E	4.7UF		35V
⚠	C862	ECEA160V33Z	E	33UF		160V
⚠	C870	ECEA1CN221S	E	220UF		16V
	C871	ECEA1CU470	E	47UF		16V
⚠	C894	ECQU2A473MN	PP	0.047UF	M	250V
⚠	C897	ECQU2A473MN	PP	0.047UF	M	250V
	C1301	ECEA1CKN330	E	33UF		16V
	C1302	ECEA1CKN330	E	33UF		16V
	C1303	ECCF1H680JC	C	68PF	J	50V
	C1304	ECCF1H680JC	C	68PF	J	50V
	C1305	ECEA1AKN470	E	47UF		10V
	C1306	ECQB1H103JF	P	0.01UF	J	50V
	C1307	ECCF1H101JC	C	100PF	J	50V
	C1308	ECRHA090N41	TRIMMER CAPACITOR			
	C1311	ECEA1AKN470	E	47UF		10V
	C1312	ECEA1CU470	E	47UF		16V
	C1314	ECEA1HU010	E	1UF		50V
	C1316	ECEA1CU470	E	47UF		16V
	C1317	ECEA1CU470	E	47UF		16V
	C1318	ECEA1CU470	E	47UF		16V
	C1319	ECEA1CN470S	E	47UF		16V
	C1322	ECEA1CU220	E	22UF		16V
	C1339	ECKF1H103ZF	C	0.01UF	Z	50V
	C1342	ECCF1H470JC	C	47PF	J	50V
	C1609	ECEA1CU330	E	33UF		16V
	C1610	ECKF1H103ZF	C	0.01UF	Z	50V
	C1611	ECKF1H103ZF	C	0.01UF	Z	50V
	C1612	ECCF1H181JC	C	180PF	J	50V
	C1613	ECEA1HN2R2S	E	2.2UF		50V
	C1614	ECCF1H180JC	C	18PF	J	50V
	C1620	ECCF1H101JC	C	100PF	J	50V
	C1623	ECEA1HNR22S	E	0.22UF		50V
	C1624	ECEA1HUR22	E	0.22UF		50V
	C1627	ECEA1CU101	E	100UF		16V
	C1629	ECQV1H334JZ	P	0.33UF	J	50V
	C1631	ECEA1HU0R1	E	0.1UF		50V
	C1632	ECQB1H152JF	P	1500PF	J	50V
	C1633	ECEA1HU010	E	1UF		50V
	C3301	ECQB1H103JF	P	0.01UF	J	50V
	C3302	ECKF1H103ZF	C	0.01UF	Z	50V
	C3304	ECEA1HKN010	E	1UF		50V
	C3305	ECEA1HN010S	E	1UF		50V
	C3306	ECEA1HN2R2S	E	2.2UF		50V
	C3313	ECKF1H103ZF	C	0.01UF	Z	50V
	C3314	ECKF1H103ZF	C	0.01UF	Z	50V
	C3315	ECEA1HNR22S	E	0.22UF		50V
	C3316	ECEA1HNR22S	E	0.22UF		50V
	C3317	ECEA1HNR22S	E	0.22UF		50V
	C3319	ECKF1H103ZF	C	0.01UF	Z	50V
	C3322	ECEA1CU470	E	47UF		16V
	C3323	ECEA1CU100	E	10UF		16V
	C3324	EXFP4472ZW	CR COMBINATION			
	C3327	ECKF1H103ZF	C	0.01UF	Z	50V
	C3328	ECEA1CU330	E	33UF		16V
	C3332	ECEA1CKN220	E	22UF		16V
	C3333	ECKF1H103ZF	C	0.01UF	Z	50V
	C3334	ECKF1H103ZF	C	0.01UF	Z	50V
	C3335	ECKF1H103ZF	C	0.01UF	Z	50V
	C3337	ECEA1CGE220	E	22UF		16V
	C3338	ECKF1H103ZF	C	0.01UF	Z	50V
	C3339	ECEA1CU101	E	100UF		16V
	C3340	ECEA1CGE470	E	47UF		16V
	C3341	ECEA1CGE330	E	33UF		16V
	C3343	ECKF1H103ZF	C	0.01UF	Z	50V
	C3344	ECKF1H103ZF	C	0.01UF	Z	50V
	C3348	ECEA1HKN010	E	1UF		50V
	C3349	ECQB1H123JF	P	0.012UF	J	50V
	C3350	ECQB1H473JF	P	0.047UF	J	50V
	C3351	ECQB1H473JF	P	0.047UF	J	50V
	C3353	ECQB1H473JF	P	0.047UF	J	50V
	C3354	ECCF1H101J	C	100PF	J	50V
	C3361	ECCF1H560J	C	56PF	J	50V
	C3362	ECEA1CU470	E	47UF		16V
	C3365	ECKF1H103ZF	C	0.01UF	Z	50V
	C4301	ECEA1CKS220	E	22UF		16V
	C4302	ECKF1H103ZF	C	0.01UF	Z	50V
	C4303	ECKF1H103ZF	C	0.01UF	Z	50V
	C5101	ECEA1CKS100	E	10UF		16V
	C5102	ECEA1CKS100	E	10UF		16V
	C5103	ECEA1CKS100	E	10UF		16V
	C5104	ECEA1CKS100	E	10UF		16V
	C5201	ECEA1CU100	E	10UF		16V
	C5202	ECEA1CU100	E	10UF		16V

	Ref.No.	Part No.	Description			
	C5203	ECEA1CU100	E	10UF		16V
	C5204	ECEA1CU100	E	10UF		16V
	C5205	ECEA1HU010	E	1UF		50V
	C5206	ECEA1HU010	E	1UF		50V
	C5207	ECEA1CN330S	E	33UF		16V
	C5208	ECEA1CU100	E	10UF		16V
	C5301	ECEA1CN220S	E	22UF		16V
	C5302	ECEA1CN100S	E	10UF		16V
	C5303	ECEA1CGE100	E	10UF		16V
	C5304	ECEA1CU100	E	10UF		16V
	C5305	ECKF1H102KB	C	1000PF	K	50V
	C5306	ECEA1CN220S	E	22UF		16V
	C5307	ECEA1CN220S	E	22UF		16V
	C5308	ECEA1CN220S	E	22UF		16V
	C5310	ECEA1CU100	E	10UF		16V
	C5312	ECEA1HN010S	E	1UF		50V
	C5314	ECEA1HN010S	E	1UF		50V
	C5316	ECQV1H473JZ	P	0.047UF	J	50V
	C5317	ECQV1H473JZ	P	0.047UF	J	50V
	C5318	ECQV1H473JZ	P	0.047UF	J	50V
	C5319	ECEA1HU010	E	1UF		50V
	C5320	ECEA1HU010	E	1UF		50V
	C5321	ECEA1CU100	E	10UF		16V
	C5322	ECEA1CU330	E	33UF		16V
	C5323	ECKF1H103ZF	C	0.01UF	Z	50V
	C5324	ECEA1HU2R2	E	2.2UF		50V
	C5325	ECQV1H473JZ	P	0.047UF	J	50V
	C5326	ECQV1H473JZ	P	0.047UF	J	50V
	C5327	ECEA1CU100	E	10UF		16V
	C5328	ECQV1H334JZ	P	0.33UF	J	50V
	C5329	ECEA1HGE010	E	1UF		50V
	C5330	ECKF1H103ZF	C	0.01UF	Z	50V
	C5331	ECQV1H473JZ	P	0.047UF	J	50V
	C5333	ECQV1H473JZ	P	0.047UF	J	50V
	C5334	ECQV1H473JZ	P	0.047UF	J	50V
	C5335	ECQV1H473JZ	P	0.047UF	J	50V
	C5337	ECEA1CGE330	E	33UF		16V
	C5338	ECKF1H103ZF	C	0.01UF	Z	50V
	C5339	ECQV1H473JZ	P	0.047UF	J	50V
	C5340	ECQV1H473JZ	P	0.047UF	J	50V
	C5342	ECQV1H334JZ	P	0.33UF	J	50V
	C5344	ECKF1H103ZF	C	0.01UF	Z	50V
	C5345	ECKF1H103ZF	C	0.01UF	Z	50V
	C5346	ECKF1H103ZF	C	0.01UF	Z	50V
	C5357	ECEA1CN100S	E	10UF		16V
	C5361	ECCF1H391J	C	390PF	J	50V
	C5402	ECEA1HNR22S	E	0.22UF		50V
	C5404	ECCF1H221J	C	220PF	J	50V
	C5406	ECQV1H333JZ	P	0.033UF	J	50V
	C5409	ECCF1H101J	C	100PF	J	50V
	C5410	ECQV1H104JZ	P	0.1UF	J	50V
	C5412	ECQV1H104JZ	P	0.1UF	J	50V
	C5413	ECCF1H101J	C	100PF	J	50V
	C5414	ECQB1H562JF	P	5600PF	J	50V
	C5415	ECKF1H103ZF	C	0.01UF	Z	50V
	C5416	ECQB1H562JF	P	5600PF	J	50V
	C5417	ECQV1H224JZ	P	0.22UF	J	50V
	C5418	ECEA1CU100	E	10UF		16V
	C5420	ECEA1CU101	E	100UF		16V
	C5421	ECEA1CU470	E	47UF		16V
	C5422	ECKF1H103ZF	C	0.01UF	Z	50V
	C5427	ECKF1H103ZF	C	0.01UF	Z	50V
	C5428	ECCF1H102J	C	1000PF	J	50V
	C5429	ECEA1CU220	E	22UF		16V
	C5430	ECEA1CU220	E	22UF		16V
	C5494	ECQV1H334JZ	P	0.33UF	J	50V
	C5601	ECEA1CU470	E	47UF		16V
	C5602	ECEA1CU470	E	47UF		16V
	C5603	ECEA1CU470	E	47UF		16V
	C5604	ECEA1CU331	E	330UF		16V
	C5605	ECKF1H103ZF	C	0.01UF	Z	50V
	C5606	ECEA1CU100	E	10UF		16V
	C5607	ECEA1CU470	E	47UF		16V
	C5608	ECKF1H103ZF	C	0.01UF	Z	50V
	C5609	ECEA1CU470	E	47UF		16V
	C5610	ECEA1CU101	E	100UF		16V
	C5611	ECKF1H103ZF	C	0.01UF	Z	50V
	C5750	ECEA1HGE330	E	33UF		50V
	C5751	ECEA1EN220S	E	22UF		25V
	C5752	ECEA1EN220S	E	22UF		25V
	C5753	ECQV1H823JZ	P	0.082UF	J	50V
	C5754	ECQV1H823JZ	P	0.082UF	J	50V
	C5755	ECEA1VU470	E	47UF		35V
	C5756	ECEA1EU102	E	1000UF		25V
	C5757	ECEA1VU100	E	10UF		35V
	C5764	ECKF1H103ZF	C	0.01UF	Z	50V
	C5766	ECQV1H474JZ	P	0.47UF	J	50V
	C5767	ECQB1H472JF	P	4700PF	J	50V
	C5768	ECQV1H823JZ	P	0.082UF	J	50V
		RESISTORS				
	R201	ERDS2TJ103	C	10K OHM	J	1/4W
	R202	ERDS2TJ152	C	1.5K OHM	J	1/4W
	R203	ERDS2TJ103	C	10K OHM	J	1/4W
	R204	ERDS2TJ4R7	C	4.7 OHM	J	1/4W
	R205	ERDS2TJ102	C	1K OHM	J	1/4W
	R207	ERD25FJ221K	C	220 OHM	J	1/4W
	R209	ERQ2CJP150S	F	15 OHM	J	2W
	R351	ERDS2TJ101	C	100 OHM	J	1/4W
	R352	ERDS2TJ101	C	100 OHM	J	1/4W
	R353	ERDS2TJ101	C	100 OHM	J	1/4W
	R354	ERDS2TJ102	C	1K OHM	J	1/4W
	R355	ERDS2TJ102	C	1K OHM	J	1/4W
	R356	ERDS2TJ102	C	1K OHM	J	1/4W
	R357	ERDS2TJ151	C	150 OHM	J	1/4W
	R358	ERDS2TJ151	C	150 OHM	J	1/4W
	R359	ERDS2TJ151	C	150 OHM	J	1/4W
	R360	ERDS2TJ270	C	27 OHM	J	1/4W
	R361	ERDS2TJ220	C	22 OHM	J	1/4W
	R362	ERDS2TJ330	C	33 OHM	J	1/4W
	R363	ERDS2TJ101	C	100 OHM	J	1/4W
	R364	ERDS2TJ101	C	100 OHM	J	1/4W
	R365	ERDS2TJ101	C	100 OHM	J	1/4W
	R366	ERDS2TJ101	C	100 OHM	J	1/4W
	R367	ERDS2TJ101	C	100 OHM	J	1/4W
	R368	ERDS2TJ101	C	100 OHM	J	1/4W
	R369	ERDS2TJ123	C	12K OHM	J	1/4W
	R370	ERDS2TJ123	C	12K OHM	J	1/4W
	R371	ERDS2TJ123	C	12K OHM	J	1/4W
⚠	R372	ERG3SJ822	M	8.2K OHM	J	3W
⚠	R373	ERG3SJ822	M	8.2K OHM	J	3W
⚠	R374	ERG3SJ822	M	8.2K OHM	J	3W
	R375	ERDS1FJ330	C	33 OHM	J	1/2W
	R376	ERDS1FJ330	C	33 OHM	J	1/2W

	Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
	R377	ERDS1FJ330	C 33 OHM J 1/2W		R509	ERDS2TJ473	C 47K OHM J 1/4W
	R378	ERDS1FJ330	C 33 OHM J 1/2W		R510	EVND1AA00B14	CONTROL B 10K OHM
	R379	ERDS1FJ330	C 33 OHM J 1/2W		R511	ERDS2TJ154	C 150K OHM J 1/4W
	R380	ERDS1FJ330	C 33 OHM J 1/2W	⚠	R512	EROS2CKF1502	M 15K OHM F 1/4W
	R381	ERQ12AJ331	F 330 OHM J 1/2W		R515	EROS2CKF8200	M 820 OHM F 1/4W
	R382	ERQ12AJ331	F 330 OHM J 1/2W		R517	ERDS2TJ332	C 3.3K OHM J 1/4W
	R383	ERQ12AJ331	F 330 OHM J 1/2W		R519	ERDS2TJ333	C 33K OHM J 1/4W
	R384	ERDS1FJ101	C 100 OHM J 1/2W		R522	ERDS2TJ683	C 68K OHM J 1/4W
	R385	ERDS1FJ101	C 100 OHM J 1/2W		R523	ERDS2TJ103	C 10K OHM J 1/4W
	R386	ERDS1FJ101	C 100 OHM J 1/2W		R525	ERDS2TJ334	C 330K OHM J 1/4W
	R387	ERDS1FJ102	C 1K OHM J 1/2W		R526	ERDS2TJ823	C 82K OHM J 1/4W
	R388	ERDS1FJ102	C 1K OHM J 1/2W		R527	ERDS2TJ183	C 18K OHM J 1/4W
	R389	ERDS1FJ102	C 1K OHM J 1/2W		R528	ERDS2TJ223	C 22K OHM J 1/4W
	R393	ERDS2TJ184	C 180K OHM J 1/4W		R529	EROS2CKF3901	M 3.9K OHM F 1/4W
	R394	ERDS2TJ184	C 180K OHM J 1/4W		R531	ERDS2TJ103	C 10K OHM J 1/4W
	R395	ERDS2TJ184	C 180K OHM J 1/4W		R532	ERDS2TJ103	C 10K OHM J 1/4W
	R401	ERDS2TJ563	C 56K OHM J 1/4W		R533	ERDS2TJ124	C 120K OHM J 1/4W
	R402	EVND1AA00B15	CONTROL B 100K OHM		R534	ERDS2TJ561	C 560 OHM J 1/4W
	R403	ERDS2TJ393	C 39K OHM J 1/4W		R535	ERDS2TJ391	C 390 OHM J 1/4W
	R404	ERDS2TJ222	C 2.2K OHM J 1/4W		R537	ERDS2TJ153	C 15K OHM J 1/4W
	R405	ERDS2TJ222	C 2.2K OHM J 1/4W		R538	ERDS2TJ333	C 33K OHM J 1/4W
	R407	ERDS2TJ822	C 8.2K OHM J 1/4W		R540	ERD25FJ8R2K	C 8.2 OHM J 1/4W
	R409	ERDS2TJ393	C 39K OHM J 1/4W		R541	ERDS2TJ331	C 330 OHM J 1/4W
	R420	ERD25FJ222K	C 2.2K OHM J 1/4W	⚠	R542	ERO25CKF1502	M 15K OHM F 1/4W
	R421	ERD25FJ103K	C 10K OHM J 1/4W		R551	ERD25FJ471K	C 470 OHM J 1/4W
	R423	ERDS2TJ103	C 10K OHM J 1/4W		R552	ERDS2TJ562	C 5.6K OHM J 1/4W
	R451	ERDS2TJ102	C 1K OHM J 1/4W	⚠	R553	ERQ2CJP561	F 560 OHM J 2W
	R452	ERDS2TJ473	C 47K OHM J 1/4W		R554	ERG5ZJ562	M 5.6K OHM J 5W
	R453	ERDS2TJ332	C 3.3K OHM J 1/4W		R555	ERDS2TJ273	C 27K OHM J 1/4W
	R454	ERDS2TJ473	C 47K OHM J 1/4W		R556	ERDS2TJ102	C 1K OHM J 1/4W
	R455	ERDS2TJ393	C 39K OHM J 1/4W		R557	ERDS2TJ562	C 5.6K OHM J 1/4W
	R456	ERDS2TJ822	C 8.2K OHM J 1/4W		R558	ERDS1FJ564	C 560K OHM J 1/2W
	R458	ERDS2TJ1R5	C 1.5 OHM J 1/4W		R563	EVND1AA00B54	CONTROL B 50K OHM
	R459	ERDS2TJ330	C 33 OHM J 1/4W		R564	ERD25FJ333K	C 33K OHM J 1/4W
	R460	ERDS2TJ330	C 33 OHM J 1/4W		R572	ERDS1FJ224	C 220K OHM J 1/2W
	R461	ERDS2TJ562	C 5.6K OHM J 1/4W		R573	ERDS2TJ562	C 5.6K OHM J 1/4W
	R462	ERDS1FJ1R5	C 1.5 OHM J 1/2W		R574	ERDS1FJ224	C 220K OHM J 1/2W
	R463	ERDS1FJ271	C 270 OHM J 1/2W		R575	ERG1SJ471	M 470 OHM J 1W
	R464	ERDS2TJ392	C 3.9K OHM J 1/4W	⚠	R577	ERQ2CJPR82S	F 0.82 OHM J 2W
	R465	ERDS2TJ153	C 15K OHM J 1/4W		R578	ERG1ANJ102	M 1K OHM J 1W
	R466	ERG2SJU181	M 180 OHM J 2W		R580	ERD25TC0	C 0 OHM 1/4W
	R467	ERDS2TJ821	C 820 OHM J 1/4W		R585	EROS2CKF3901	M 3.9K OHM F 1/4W
	R468	EVNDXAA00B14	CONTROL B 10K OHM		R600	ERQ12HJ3R3	F 3.3 OHM J 1/2W
	R469	ERDS2TJ472	C 4.7K OHM J 1/4W		R601	ERDS2TJ331	C 330 OHM J 1/4W
⚠	R471	TSF39801	FUSE		R602	ERDS2TJ122	C 1.2K OHM J 1/4W
	R472	ERDS2TJ392	C 3.9K OHM J 1/4W		R603	ERDS2TJ331	C 330 OHM J 1/4W
	R473	ERDS2TJ561	C 560 OHM J 1/4W		R604	EVND4AA00B52	CONTROL B 500 OHM
	R474	ERDS2TJ561	C 560 OHM J 1/4W		R605	ERDS2TJ273	C 27K OHM J 1/4W
	R475	ERDS2TJ562	C 5.6K OHM J 1/4W		R606	ERDS2TJ562	C 5.6K OHM J 1/4W
	R480	ERDS2TJ822	C 8.2K OHM J 1/4W		R607	ERDS2TJ561	C 560 OHM J 1/4W
	R481	ERDS2TJ392	C 3.9K OHM J 1/4W		R608	ERDS2TJ101	C 100 OHM J 1/4W
	R482	ERDS2TJ562	C 5.6K OHM J 1/4W		R609	ERDS2TJ561	C 560 OHM J 1/4W
	R483	ERDS2TJ153	C 15K OHM J 1/4W		R610	ERDS2TJ561	C 560 OHM J 1/4W
	R484	ERDS2TJ101	C 100 OHM J 1/4W		R611	ERDS2TJ561	C 560 OHM J 1/4W
	R485	ERDS2TJ102	C 1K OHM J 1/4W		R612	ERDS2TJ561	C 560 OHM J 1/4W
	R502	ERDS2TJ683	C 68K OHM J 1/4W		R613	ERDS2TJ561	C 560 OHM J 1/4W
	R503	ERDS2TJ222	C 2.2K OHM J 1/4W		R614	ERDS2TJ103	C 10K OHM J 1/4W
	R504	ERDS2TJ820	C 82 OHM J 1/4W		R615	ERDS2TJ103	C 10K OHM J 1/4W
	R505	ERDS2TJ682	C 6.8K OHM J 1/4W		R616	ERDS2TJ152	C 1.5K OHM J 1/4W
	R506	ERDS2TJ184	C 180K OHM J 1/4W		R617	ERDS2TJ333	C 33K OHM J 1/4W
	R507	ERDS2TJ103	C 10K OHM J 1/4W		R618	ERDS2TJ562	C 5.6K OHM J 1/4W
	R508	EVND1AA00B54	CONTROL B 50K OHM		R619	ERDS2TJ102	C 1K OHM J 1/4W

	Ref.No.	Part No.	Description				
	R621	ERDS2TJ181	C	180	OHM	J	1/4W
	R622	ERDS2TJ331	C	330	OHM	J	1/4W
	R623	ERDS2TJ102	C	1K	OHM	J	1/4W
	R624	ERDS2TJ331	C	330	OHM	J	1/4W
	R625	ERDS2TJ682	C	6.8K	OHM	J	1/4W
	R626	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R627	ERC14GJ106	S	10M	OHM	J	1/4W
	R628	ERD25FJ101K	C	100	OHM	J	1/4W
	R629	ERDS2TJ101	C	100	OHM	J	1/4W
	R630	ERD25FJ101K	C	100	OHM	J	1/4W
	R631	ERDS2TJ331	C	330	OHM	J	1/4W
	R632	ERDS2TJ102	C	1K	OHM	J	1/4W
	R633	ERDS2TJ104	C	100K	OHM	J	1/4W
	R634	ERDS2TJ391	C	390	OHM	J	1/4W
	R635	ERDS2TJ104	C	100K	OHM	J	1/4W
	R636	ERDS2TJ331	C	330	OHM	J	1/4W
	R637	ERDS2TJ102	C	1K	OHM	J	1/4W
	R638	ERDS2TJ221	C	220	OHM	J	1/4W
	R639	ERDS2TJ331	C	330	OHM	J	1/4W
	R640	ERDS2TJ101	C	100	OHM	J	1/4W
	R642	ERDS2TJ152	C	1.5K	OHM	J	1/4W
	R643	ERDS2TJ222	C	2.2K	OHM	J	1/4W
	R644	ERDS2TJ152	C	1.5K	OHM	J	1/4W
	R645	ERDS2TJ471	C	470	OHM	J	1/4W
	R646	ERDS2TJ331	C	330	OHM	J	1/4W
	R647	ERDS2TJ102	C	1K	OHM	J	1/4W
	R648	ERDS2TJ221	C	220	OHM	J	1/4W
	R649	ERDS2TJ103	C	10K	OHM	J	1/4W
	R650	ERDS2TJ103	C	10K	OHM	J	1/4W
	R651	ERDS2TJ103	C	10K	OHM	J	1/4W
	R653	ERDS2TJ391	C	390	OHM	J	1/4W
	R655	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R656	ERDS2TJ331	C	330	OHM	J	1/4W
	R657	ERDS2TJ122	C	1.2K	OHM	J	1/4W
	R659	ERDS2TJ471	C	470	OHM	J	1/4W
	R660	ERD25FJ102K	C	1K	OHM	J	1/4W
	R661	ERDS2TJ562	C	5.6K	OHM	J	1/4W
	R662	ERDS2TJ103	C	10K	OHM	J	1/4W
	R663	EVND4AA00B13	CONTROL			B	1K OHM
	R664	ERDS2TJ751	C	750	OHM	J	1/4W
	R665	ERDS2TJ821	C	820	OHM	J	1/4W
	R666	ERDS2TJ102	C	1K	OHM	J	1/4W
	R667	ERDS2TJ821	C	820	OHM	J	1/4W
	R668	ERDS2TJ681	C	680	OHM	J	1/4W
	R669	ERD25FJ472K	C	4.7K	OHM	J	1/4W
	R670	EVND1AA00B54	CONTROL			B	50K OHM
	R671	ERDS2TJ332	C	3.3K	OHM	J	1/4W
	R672	ERD25FJ561K	C	560	OHM	J	1/4W
	R673	ERDS2TJ561	C	560	OHM	J	1/4W
	R674	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R675	ERDS2TJ682	C	6.8K	OHM	J	1/4W
	R676	ERDS2TJ101	C	100	OHM	J	1/4W
	R677	ERDS2TJ101	C	100	OHM	J	1/4W
	R678	ERDS2TJ101	C	100	OHM	J	1/4W
	R679	ERDS2TJ103	C	10K	OHM	J	1/4W
	R680	ERDS2TJ105	C	1M	OHM	J	1/4W
	R681	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R684	ERDS2TJ181	C	180	OHM	J	1/4W
	R685	ERDS2TJ122	C	1.2K	OHM	J	1/4W
	R686	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R687	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R688	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R689	ERDS2TJ223	C	22K	OHM	J	1/4W
	R690	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R691	ERDS2TJ223	C	22K	OHM	J	1/4W
	R692	ERDS2TJ472	C	4.7K	OHM	J	1/4W
	R698	ERDS2TJ331	C	330	OHM	J	1/4W
	R770	ERD25FJ332K	C	3.3K	OHM	J	1/4W
	R771	ERDS2TJ272	C	2.7K	OHM	J	1/4W
	R772	ERDS2TJ122	C	1.2K	OHM	J	1/4W
	R773	ERQ2CJP220S	F	22	OHM	J	2W
⚠	R801	ERF5AKR47	W	0.47	OHM	K	5W
⚠	R803	ERDS1FJ124	C	120K	OHM	J	1/2W
⚠	R804	ERF5ZJ101	W	100	OHM	J	5W
⚠	R805	ERG2ANJ680	M	68	OHM	J	2W
⚠	R808	ERG3SJU153	M	15K	OHM	U	3W
⚠	R811	ERQ1CKPR33	F	0.33	OHM	K	1W
⚠	R814	ERC12ZGK335	S	3.3M	OHM	K	1/2W
⚠	R815	ERW12PKR12	W	0.12	OHM	K	1/2W
⚠	R820	ERW12PKR12	W	0.12	OHM	K	1/2W
⚠	R821	ERQ12HJ1R2	F	1.2	OHM	J	1/2W
	R824	ERD25FJ102K	C	1K	OHM	J	1/4W
⚠	R825	ERQ14AJ471	F	470	OHM	J	1/4W
⚠	R826	ERQ12HKR82	F	0.82	OHM	K	1/2W
⚠	R830	ERQ1CJP3R9S	F	3.9	OHM	J	1W
⚠	R831	ERQ12HKR22	F	0.22	OHM	K	1/2W
	R860	ERDS1FJ2R2	C	2.2	OHM	J	1/2W
	R861	ERDS1FJ2R2	C	2.2	OHM	J	1/2W
	R862	ERDS1FJ1R2	C	1.2	OHM	J	1/2W
	R863	ERDS1FJ272	C	2.7K	OHM	J	1/2W
	R864	ERD25FJ223K	C	22K	OHM	J	1/4W
	R865	ERDS2TJ223	C	22K	OHM	J	1/4W
	R866	ERDS2TJ103	C	10K	OHM	J	1/4W
	R867	ERDS2TJ102	C	1K	OHM	J	1/4W
	R870	ERF2AJ100	W	10	OHM	J	2W
⚠	R880	ERDS1FJ333	C	33K	OHM	J	1/2W
⚠	R881	ERDS1FJ472	C	4.7K	OHM	J	1/2W
⚠	R885	ERD25FJ102K	C	1K	OHM	J	1/4W
	R886	ERDS2TJ472	C	4.7K	OHM	J	1/4W
⚠	R888	ERDS1FJ333	C	33K	OHM	J	1/2W
	R889	ERDS2TJ333	C	33K	OHM	J	1/4W
	R1300	ERDS2TJ103	C	10K	OHM	J	1/4W
	R1301	ERDS2TJ153	C	15K	OHM	J	1/4W
	R1302	ERDS2TJ682	C	6.8K	OHM	J	1/4W
	R1303	ERDS2TJ473	C	47K	OHM	J	1/4W
	R1304	ERDS2TJ223	C	22K	OHM	J	1/4W
	R1305	ERDS2TJ101	C	100	OHM	J	1/4W
	R1306	EROS2CKF3000	M	300	OHM	J	1/4W
	R1307	ERDS2TJ101	C	100	OHM	J	1/4W
	R1308	ERDS2TJ121	C	120	OHM	J	1/4W
	R1309	ERDS2TJ471	C	470	OHM	J	1/4W
	R1310	ERDS2TJ473	C	47K	OHM	J	1/4W
	R1311	ERDS2TJ223	C	22K	OHM	J	1/4W
	R1312	ERDS2TJ102	C	1K	OHM	J	1/4W
	R1313	ERDS2TJ102	C	1K	OHM	J	1/4W
	R1314	ERDS2TJ473	C	47K	OHM	J	1/4W
	R1315	ERDS2TJ223	C	22K	OHM	J	1/4W
	R1316	EVND4AA00B13	CONTROL			B	1K OHM
	R1317	ERD25FJ222K	C	2.2K	OHM	J	1/4W
	R1318	ERDS2TJ331	C	330	OHM	J	1/4W
	R1319	ERDS2TJ333	C	33K	OHM	J	1/4W
	R1320	ERDS2TJ222	C	2.2K	OHM	J	1/4W
	R1321	ERDS2TJ391	C	390	OHM	J	1/4W

Ref.No.	Part No.	Description
R1322	ERDS2TJ121	C 120 OHM J 1/4W
R1323	ERDS2TJ102	C 1K OHM J 1/4W
R1324	ERDS2TJ102	C 1K OHM J 1/4W
R1325	ERDS2TJ152	C 1.5K OHM J 1/4W
R1326	ERD25FJ102K	C 1K OHM J 1/4W
R1327	ERDS2TJ102	C 1K OHM J 1/4W
R1332	ERDS2TJ223	C 22K OHM J 1/4W
R1333	ERDS2TJ473	C 47K OHM J 1/4W
R1334	ERDS2TJ221	C 220 OHM J 1/4W
R1335	ERDS2TJ222	C 2.2K OHM J 1/4W
R1336	ERDS2TJ121	C 120 OHM J 1/4W
R1337	ERDS2TJ103	C 10K OHM J 1/4W
R1339	ERDS2TJ102	C 1K OHM J 1/4W
R1341	ERDS2TJ101	C 100 OHM J 1/4W
R1344	ERDS2TJ102	C 1K OHM J 1/4W
R1345	ERDS2TJ102	C 1K OHM J 1/4W
R1346	ERDS2TJ152	C 1.5K OHM J 1/4W
R1347	ERDS2TJ152	C 1.5K OHM J 1/4W
R1348	ERDS2TJ332	C 3.3K OHM J 1/4W
R1357	ERDS2TJ471	C 470 OHM J 1/4W
R1358	ERDS2TJ681	C 680 OHM J 1/4W
R1359	ERDS2TJ181	C 180 OHM J 1/4W
R1361	ERDS2TJ222	C 2.2K OHM J 1/4W
R1362	ERDS2TJ271	C 270 OHM J 1/4W
R1367	ERDS2TJ271	C 270 OHM J 1/4W
R1372	ERDS2TJ472	C 4.7K OHM J 1/4W
R1373	ERDS2TJ334	C 330K OHM J 1/4W
R1374	ERDS2TJ104	C 100K OHM J 1/4W
R1375	ERDS2TJ102	C 1K OHM J 1/4W
R1376	ERDS2TJ333	C 33K OHM J 1/4W
R1377	ERDS2TJ103	C 10K OHM J 1/4W
R1378	ERDS2TJ103	C 10K OHM J 1/4W
R1380	EXBF4E103J	RR COMBINATION
R1381	EXBF4E103J	RR COMBINATION
R1382	ERDS2TJ102	C 1K OHM J 1/4W
R1383	ERDS2TJ682	C 6.8K OHM J 1/4W
R1384	ERDS2TJ102	C 1K OHM J 1/4W
R1386	ERDS2TJ102	C 1K OHM J 1/4W
R1387	ERD25FJ102K	C 1K OHM J 1/4W
R1388	ERDS2TJ102	C 1K OHM J 1/4W
R1389	ERDS2TJ103	C 10K OHM J 1/4W
R1392	ERDS2TJ223	C 22K OHM J 1/4W
R1394	EXBF5E472J	RR COMBINATION
R1395	ERDS2TJ101	C 100 OHM J 1/4W
R1398	ERDS2TJ103	C 10K OHM J 1/4W
R1399	ERD25FJ331K	C 330 OHM J 1/4W
R1601	ERDS2TJ104	C 100K OHM J 1/4W
R1615	ERDS2TJ222	C 2.2K OHM J 1/4W
R1618	ERDS2TJ102	C 1K OHM J 1/4W
R1619	ERDS2TJ391	C 390 OHM J 1/4W
R1620	ERDS2TJ101	C 100 OHM J 1/4W
R1621	ERDS2TJ222	C 2.2K OHM J 1/4W
R1622	ERDS2TJ681	C 680 OHM J 1/4W
R1626	ERDS2TJ104	C 100K OHM J 1/4W
R1627	ERDS2TJ101	C 100 OHM J 1/4W
R1628	ERDS2TJ273	C 27K OHM J 1/4W
R1642	ERDS2TJ472	C 4.7K OHM J 1/4W
R1643	ERDS2TJ472	C 4.7K OHM J 1/4W
R1644	ERDS2TJ103	C 10K OHM J 1/4W
R1645	ERDS2TJ682	C 6.8K OHM J 1/4W
R1646	ERDS2TJ103	C 10K OHM J 1/4W
R1647	ERDS2TJ222	C 2.2K OHM J 1/4W
R1653	ERDS2TJ272	C 2.7K OHM J 1/4W
R1654	ERDS2TJ822	C 8.2K OHM J 1/4W
R1661	ERDS2TJ393	C 39K OHM J 1/4W
R1662	ERDS2TJ223	C 22K OHM J 1/4W
R1663	ERDS2TJ102	C 1K OHM J 1/4W
R1664	ERDS2TJ561	C 560 OHM J 1/4W
R1668	ERDS2TJ221	C 220 OHM J 1/4W
R1669	ERDS2TJ333	C 33K OHM J 1/4W
R1670	ERDS2TJ221	C 220 OHM J 1/4W
R1671	ERDS2TJ472	C 4.7K OHM J 1/4W
R1672	ERDS2TJ183	C 18K OHM J 1/4W
R1673	ERDS2TJ563	C 56K OHM J 1/4W
R1674	ERDS2TJ152	C 1.5K OHM J 1/4W
R1675	ERDS2TJ121	C 120 OHM J 1/4W
R1676	ERDS2TJ103	C 10K OHM J 1/4W
R1677	ERDS2TJ102	C 1K OHM J 1/4W
R3300	ERDS2TJ101	C 100 OHM J 1/4W
R3302	ERDS2TJ101	C 100 OHM J 1/4W
R3304	ERDS2TJ103	C 10K OHM J 1/4W
R3305	ERDS2TJ102	C 1K OHM J 1/4W
R3307	ERDS2TJ101	C 100 OHM J 1/4W
R3308	ERDS2TJ563	C 56K OHM J 1/4W
R3309	ERDS2TJ102	C 1K OHM J 1/4W
R3311	ERDS2TJ683	C 68K OHM J 1/4W
R3315	ERDS2TJ103	C 10K OHM J 1/4W
R3316	ERDS2TJ102	C 1K OHM J 1/4W
R3317	EVTF4CA00B24	CONTROL B 20K OHM
R3318	ERDS2TJ102	C 1K OHM J 1/4W
R3319	ERD25FJ223K	C 22K OHM J 1/4W
R3320	ERDS2TJ103	C 10K OHM J 1/4W
R3321	ERDS2TJ101	C 100 OHM J 1/4W
R3322	ERDS2TJ101	C 100 OHM J 1/4W
R3323	ERDS2TJ101	C 100 OHM J 1/4W
R3324	ERDS2TJ101	C 100 OHM J 1/4W
R3325	ERDS2TJ101	C 100 OHM J 1/4W
R3326	ERDS2TJ101	C 100 OHM J 1/4W
R3327	ERDS2TJ472	C 4.7K OHM J 1/4W
R3329	ERDS2TJ101	C 100 OHM J 1/4W
R3330	ERDS2TJ101	C 100 OHM J 1/4W
R3332	ERDS2TJ682	C 6.8K OHM J 1/4W
R3333	ERDS2TJ153	C 15K OHM J 1/4W
R3334	ERDS2TJ101	C 100 OHM J 1/4W
R3335	ERDS2TJ153	C 15K OHM J 1/4W
R3338	ERDS2TJ562	C 5.6K OHM J 1/4W
R3339	EVTF4CA00B14	CONTROL B 10K OHM
R3340	ERDS2TJ562	C 5.6K OHM J 1/4W
R3344	EVTF4CA00B53	CONTROL B 5K OHM
R3345	ERDS2TJ122	C 1.2K OHM J 1/4W
R3346	ERDS2TJ473	C 47K OHM J 1/4W
R3347	EVTF4CA00B15	CONTROL B 100K OHM
R3348	ERDS2TJ472	C 4.7K OHM J 1/4W
R3349	EVTF4CA00B53	CONTROL B 5K OHM
R3350	ERDS2TJ392	C 3.9K OHM J 1/4W
R3351	EVTF4CA00B15	CONTROL B 100K OHM
R3352	ERDS2TJ333	C 33K OHM J 1/4W
R3354	EVTF4CA00B14	CONTROL B 10K OHM
R3355	ERDS2TJ153	C 15K OHM J 1/4W
R3357	ERDS2TJ103	C 10K OHM J 1/4W
R3359	ERDS2TJ472	C 4.7K OHM J 1/4W
R3360	ERDS2TJ153	C 15K OHM J 1/4W
R3361	ERDS2TJ822	C 8.2K OHM J 1/4W
R3362	ERDS2TJ104	C 100K OHM J 1/4W

Ref.No.	Part No.	Description
R3363	ERDS2TJ684	C 680K OHM J 1/4W
R3364	ERDS2TJ684	C 680K OHM J 1/4W
R3365	ERDS2TJ562	C 5.6K OHM J 1/4W
R3366	EVTF4CA00B15	CONTROL B 100K OHM
R3367	ERDS2TJ684	C 680K OHM J 1/4W
R3374	ERDS2TJ103	C 10K OHM J 1/4W
R3378	EROS2CKF1801	M 1.8K OHM F 1/4W
R3379	ERDS2TJ222	C 2.2K OHM J 1/4W
R3380	ERDS2TJ101	C 100 OHM J 1/4W
R3381	EVTF4CA00B25	CONTROL B 200K OHM
R3382	ERDS2TJ101	C 100 OHM J 1/4W
R3384	ERDS2TJ101	C 100 OHM J 1/4W
R3386	ERDS2TJ102	C 1K OHM J 1/4W
R3389	ERDS2TJ101	C 100 OHM J 1/4W
R3390	ERDS2TJ332	C 3.3K OHM J 1/4W
R3393	EVTF4CA00B14	CONTROL B 10K OHM
R3394	ERDS2TJ102	C 1K OHM J 1/4W
R3395	ERDS2TJ222	C 2.2K OHM J 1/4W
R3396	ERD25FJ222K	C 2.2K OHM J 1/4W
R3397	ERQ1CJP1R0	F 1 OHM J 1W
R3398	ERDS2TJ472	C 4.7K OHM J 1/4W
R3399	ERDS2TJ222	C 2.2K OHM J 1/4W
R3404	ERDS2TJ123	C 12K OHM J 1/4W
R3405	ERDS2TJ473	C 47K OHM J 1/4W
R3407	ERDS1FJ100	C 10 OHM J 1/2W
R3409	ERDS2TJ153	C 15K OHM J 1/4W
R3410	ERDS2TJ223	C 22K OHM J 1/4W
R3411	ERD25FJ682K	C 6.8K OHM J 1/4W
R3414	ERDS2TJ103	C 10K OHM J 1/4W
R3415	ERDS2TJ562	C 5.6K OHM J 1/4W
R3416	ERDS2TJ103	C 10K OHM J 1/4W
R3417	ERDS2TJ153	C 15K OHM J 1/4W
R3420	ERDS2TJ472	C 4.7K OHM J 1/4W
R3421	ERDS2TJ471	C 470 OHM J 1/4W
R3422	ERDS2TJ471	C 470 OHM J 1/4W
R3423	ERDS2TJ471	C 470 OHM J 1/4W
R3424	ERDS2TJ472	C 4.7K OHM J 1/4W
R3425	ERDS2TJ472	C 4.7K OHM J 1/4W
R3426	ERDS2TJ103	C 10K OHM J 1/4W
R3427	ERDS2TJ561	C 560 OHM J 1/4W
R3428	ERDS2TJ103	C 10K OHM J 1/4W
R3430	ERDS2TJ562	C 5.6K OHM J 1/4W
R3431	ERDS2TJ182	C 1.8K OHM J 1/4W
R3432	ERDS2TJ153	C 15K OHM J 1/4W
R3436	ERDS2TJ222	C 2.2K OHM J 1/4W
R3437	ERDS2TJ222	C 2.2K OHM J 1/4W
R3438	ERDS2TJ822	C 8.2K OHM J 1/4W
R3439	ERDS2TJ332	C 3.3K OHM J 1/4W
R3440	ERDS2TJ562	C 5.6K OHM J 1/4W
R3451	ERDS2TJ222	C 2.2K OHM J 1/4W
R3452	ERDS2TJ124	C 120K OHM J 1/4W
R4201	ERDS2TJ102	C 1K OHM J 1/4W
R4202	ERDS2TJ104	C 100K OHM J 1/4W
R4203	ERDS2TJ103	C 10K OHM J 1/4W
R4204	ERDS2TJ222	C 2.2K OHM J 1/4W
R4205	ERDS2TJ473	C 47K OHM J 1/4W
R4206	ERDS2TJ103	C 10K OHM J 1/4W
R4207	ERDS2TJ473	C 47K OHM J 1/4W
R4208	ERDS2TJ102	C 1K OHM J 1/4W
R4209	ERDS2TJ104	C 100K OHM J 1/4W
R4210	ERDS2TJ102	C 1K OHM J 1/4W
R4211	ERDS2TJ104	C 100K OHM J 1/4W
R4212	ERDS2TJ103	C 10K OHM J 1/4W
R4301	ERD25FJ750K	C 75 OHM J 1/4W
R4302	ERD25FJ750K	C 75 OHM J 1/4W
R4303	ERD25FJ750K	C 75 OHM J 1/4W
R4304	ERD25FJ750K	C 75 OHM J 1/4W
R4305	ERD25FJ750K	C 75 OHM J 1/4W
R4306	ERD25FJ750K	C 75 OHM J 1/4W
R4307	ERD25FJ151K	C 150 OHM J 1/4W
R4308	ERD25FJ151K	C 150 OHM J 1/4W
R4309	ERD25FJ151K	C 150 OHM J 1/4W
R4311	ERDS2TJ221	C 220 OHM J 1/4W
R4312	ERDS2TJ563	C 56K OHM J 1/4W
R4313	ERDS2TJ101	C 100 OHM J 1/4W
R4314	ERDS2TJ103	C 10K OHM J 1/4W
R4315	ERDS2TJ103	C 10K OHM J 1/4W
R4316	ERDS2TJ562	C 5.6K OHM J 1/4W
R4317	ERDS2TJ273	C 27K OHM J 1/4W
R4318	ERDS2TJ471	C 470 OHM J 1/4W
R4319	ERDS2TJ561	C 560 OHM J 1/4W
R4324	ERDS2TJ682	C 6.8K OHM J 1/4W
R4326	ERD25FJ750K	C 75 OHM J 1/4W
R4327	ERDS2TJ102	C 1K OHM J 1/4W
R4328	ERDS2TJ104	C 100K OHM J 1/4W
R4329	ERDS2TJ101	C 100 OHM J 1/4W
R4330	ERDS2TJ101	C 100 OHM J 1/4W
R4334	ERDS2TJ471	C 470 OHM J 1/4W
R5106	ERDS2TJ473	C 47K OHM J 1/4W
R5107	EVJ02WF25B14	CONTROL B 10K OHM
R5108	ERDS2TJ392	C 3.9K OHM J 1/4W
R5109	ERDS2TJ221	C 220 OHM J 1/4W
R5110	ERDS2TJ102	C 1K OHM J 1/4W
R5111	EVJ02WF25B14	CONTROL B 10K OHM
R5112	ERDS2TJ102	C 1K OHM J 1/4W
R5113	ERDS2TJ221	C 220 OHM J 1/4W
R5114	ERDS2TJ472	C 4.7K OHM J 1/4W
R5115	EVJ02WF25B14	CONTROL B 10K OHM
R5116	ERDS2TJ103	C 10K OHM J 1/4W
R5117	ERDS2TJ221	C 220 OHM J 1/4W
R5118	ERDS2TJ153	C 15K OHM J 1/4W
R5119	EVJ02WF25B14	CONTROL B 10K OHM
R5120	ERDS2TJ152	C 1.5K OHM J 1/4W
R5121	ERDS2TJ221	C 220 OHM J 1/4W
R5122	ERDS2TJ472	C 4.7K OHM J 1/4W
R5123	EVJ02WF25B14	CONTROL B 10K OHM
R5124	ERDS2TJ822	C 8.2K OHM J 1/4W
R5125	ERDS2TJ221	C 220 OHM J 1/4W
R5126	ERDS2TJ102	C 1K OHM J 1/4W
R5127	EVJ02WF25B14	CONTROL B 10K OHM
R5128	ERDS2TJ101	C 100 OHM J 1/4W
R5129	ERDS2TJ221	C 220 OHM J 1/4W
R5130	ERDS2TJ102	C 1K OHM J 1/4W
R5131	ERDS2TJ102	C 1K OHM J 1/4W
R5132	EVJ02WF25B14	CONTROL B 10K OHM
R5133	ERDS2TJ332	C 3.3K OHM J 1/4W
R5134	ERDS2TJ683	C 68K OHM J 1/4W
R5135	EVJ02WF25B54	CONTROL B 50K OHM
R5136	ERDS2TJ101	C 100 OHM J 1/4W
R5137	ERDS2TJ102	C 1K OHM J 1/4W
R5138	ERDS2TJ102	C 1K OHM J 1/4W
R5145	ERDS2TJ101	C 100 OHM J 1/4W
R5146	ERDS2TJ153	C 15K OHM J 1/4W
R5147	ERDS2TJ153	C 15K OHM J 1/4W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R5148	ERDS2TJ153	C 15K OHM J 1/4W	R5338	ERDS2TJ472	C 4.7K OHM J 1/4W
R5150	ERDS2TJ222	C 2.2K OHM J 1/4W	R5339	ERDS2TJ472	C 4.7K OHM J 1/4W
R5151	ERDS2TJ392	C 3.9K OHM J 1/4W	R5340	ERDS2TJ682	C 6.8K OHM J 1/4W
R5152	ERDS2TJ682	C 6.8K OHM J 1/4W	R5341	ERDS2TJ103	C 10K OHM J 1/4W
R5153	ERD25FJ223K	C 22K OHM J 1/4W	R5342	ERDS2TJ822	C 8.2K OHM J 1/4W
R5154	ERD25FJ102K	C 1K OHM J 1/4W	R5343	ERDS2TJ103	C 10K OHM J 1/4W
R5201	ERDS2TJ472	C 4.7K OHM J 1/4W	R5344	ERDS2TJ473	C 47K OHM J 1/4W
R5202	ERDS2TJ472	C 4.7K OHM J 1/4W	R5345	ERDS2TJ563	C 56K OHM J 1/4W
R5203	ERDS2TJ472	C 4.7K OHM J 1/4W	R5346	ERDS2TJ563	C 56K OHM J 1/4W
R5207	ERDS2TJ104	C 100K OHM J 1/4W	R5347	ERDS2TJ472	C 4.7K OHM J 1/4W
R5208	ERDS2TJ104	C 100K OHM J 1/4W	R5349	ERDS2TJ101	C 100 OHM J 1/4W
R5209	ERDS2TJ104	C 100K OHM J 1/4W	R5351	ERD25FJ103K	C 10K OHM J 1/4W
R5210	ERDS2TJ682	C 6.8K OHM J 1/4W	R5356	ERDS2TJ391	C 390 OHM J 1/4W
R5211	ERDS2TJ562	C 5.6K OHM J 1/4W	R5358	ERDS2TJ391	C 390 OHM J 1/4W
R5212	ERDS2TJ102	C 1K OHM J 1/4W	R5360	ERDS2TJ391	C 390 OHM J 1/4W
R5213	ERDS2TJ104	C 100K OHM J 1/4W	R5361	ERDS2TJ103	C 10K OHM J 1/4W
R5214	ERDS2TJ221	C 220 OHM J 1/4W	R5362	EVND4AA00B23	CONTROL B 2K OHM
R5215	ERDS2TJ102	C 1K OHM J 1/4W	R5363	ERDS2TJ103	C 10K OHM J 1/4W
R5216	ERDS2TJ101	C 100 OHM J 1/4W	R5364	ERDS2TJ101	C 100 OHM J 1/4W
R5217	ERDS2TJ104	C 100K OHM J 1/4W	R5365	ERDS2TJ682	C 6.8K OHM J 1/4W
R5218	ERDS2TJ103	C 10K OHM J 1/4W	R5366	ERDS2TJ682	C 6.8K OHM J 1/4W
R5219	ERDS2TJ104	C 100K OHM J 1/4W	R5367	ERD25FJ472K	C 4.7K OHM J 1/4W
R5220	ERDS2TJ103	C 10K OHM J 1/4W	R5368	ERDS2TJ124	C 120K OHM J 1/4W
R5221	ERDS2TJ104	C 100K OHM J 1/4W	R5369	ERDS2TJ124	C 120K OHM J 1/4W
R5222	ERDS2TJ104	C 100K OHM J 1/4W	R5370	ERDS2TJ101	C 100 OHM J 1/4W
R5223	ERDS2TJ562	C 5.6K OHM J 1/4W	R5371	ERDS2TJ682	C 6.8K OHM J 1/4W
R5224	ERDS2TJ562	C 5.6K OHM J 1/4W	R5372	ERDS2TJ472	C 4.7K OHM J 1/4W
R5225	ERDS2TJ393	C 39K OHM J 1/4W	R5373	ERDS2TJ472	C 4.7K OHM J 1/4W
R5230	ERDS1FJ101	C 100 OHM J 1/2W	R5374	ERDS2TJ682	C 6.8K OHM J 1/4W
R5301	ERDS2TJ221	C 220 OHM J 1/4W	R5375	ERDS2TJ103	C 10K OHM J 1/4W
R5302	ERDS2TJ333	C 33K OHM J 1/4W	R5376	ERDS2TJ103	C 10K OHM J 1/4W
R5303	ERDS2TJ333	C 33K OHM J 1/4W	R5377	EVND4AA00B23	CONTROL B 2K OHM
R5304	ERDS2TJ332	C 3.3K OHM J 1/4W	R5378	ERDS2TJ391	C 390 OHM J 1/4W
R5305	ERD25FJ222K	C 2.2K OHM J 1/4W	R5379	ERDS2TJ391	C 390 OHM J 1/4W
R5306	ERDS2TJ561	C 560 OHM J 1/4W	R5380	ERDS2TJ561	C 560 OHM J 1/4W
R5307	ERDS2TJ102	C 1K OHM J 1/4W	R5381	ERDS2TJ221	C 220 OHM J 1/4W
R5308	ERDS2TJ221	C 220 OHM J 1/4W	R5382	ERDS2TJ124	C 120K OHM J 1/4W
R5309	ERDS2TJ102	C 1K OHM J 1/4W	R5383	ERDS2TJ124	C 120K OHM J 1/4W
R5310	ERDS2TJ331	C 330 OHM J 1/4W	R5384	ERDS2TJ101	C 100 OHM J 1/4W
R5311	ERDS2TJ331	C 330 OHM J 1/4W	R5385	ERDS2TJ472	C 4.7K OHM J 1/4W
R5312	ERDS2TJ331	C 330 OHM J 1/4W	R5386	ERDS2TJ222	C 2.2K OHM J 1/4W
R5313	ERDS2TJ153	C 15K OHM J 1/4W	R5387	ERDS2TJ682	C 6.8K OHM J 1/4W
R5314	ERDS2TJ153	C 15K OHM J 1/4W	R5388	ERDS2TJ152	C 1.5K OHM J 1/4W
R5315	ERDS2TJ153	C 15K OHM J 1/4W	R5389	ERDS2TJ682	C 6.8K OHM J 1/4W
R5316	ERDS2TJ333	C 33K OHM J 1/4W	R5390	ERDS2TJ682	C 6.8K OHM J 1/4W
R5317	ERDS2TJ333	C 33K OHM J 1/4W	R5391	ERDS2TJ101	C 100 OHM J 1/4W
R5318	ERDS2TJ333	C 33K OHM J 1/4W	R5392	ERDS2TJ103	C 10K OHM J 1/4W
R5319	ERDS2TJ122	C 1.2K OHM J 1/4W	R5393	ERDS2TJ103	C 10K OHM J 1/4W
R5320	ERDS2TJ122	C 1.2K OHM J 1/4W	R5394	ERDS2TJ102	C 1K OHM J 1/4W
R5321	ERDS2TJ122	C 1.2K OHM J 1/4W	R5395	ERDS2TJ101	C 100 OHM J 1/4W
R5322	ERDS2TJ102	C 1K OHM J 1/4W	R5396	ERDS2TJ333	C 33K OHM J 1/4W
R5323	ERDS2TJ101	C 100 OHM J 1/4W	R5397	ERDS2TJ563	C 56K OHM J 1/4W
R5324	ERDS2TJ101	C 100 OHM J 1/4W	R5398	ERDS2TJ563	C 56K OHM J 1/4W
R5325	ERDS2TJ101	C 100 OHM J 1/4W	R5399	ERDS2TJ333	C 33K OHM J 1/4W
R5328	ERDS2TJ102	C 1K OHM J 1/4W	R5403	ERDS2TJ101	C 100 OHM J 1/4W
R5330	ERDS2TJ101	C 100 OHM J 1/4W	R5404	ERDS2TJ391	C 390 OHM J 1/4W
R5331	ERDS2TJ222	C 2.2K OHM J 1/4W	R5405	ERDS2TJ151	C 150 OHM J 1/4W
R5332	ERDS2TJ101	C 100 OHM J 1/4W	R5407	ERDS2TJ124	C 120K OHM J 1/4W
R5333	ERDS2TJ103	C 10K OHM J 1/4W	R5410	ERDS2TJ152	C 1.5K OHM J 1/4W
R5334	ERDS2TJ123	C 12K OHM J 1/4W	R5411	ERDS2TJ102	C 1K OHM J 1/4W
R5335	ERDS2TJ102	C 1K OHM J 1/4W	R5412	ERDS2TJ152	C 1.5K OHM J 1/4W
R5336	ERDS2TJ101	C 100 OHM J 1/4W	R5413	ERDS2TJ392	C 3.9K OHM J 1/4W

Ref.No.	Part No.	Description			
R5414	ERDS2TJ221	C	220 OHM	J	1/4W
R5416	ERDS2TJ562	C	5.6K OHM	J	1/4W
R5418	ERDS2TJ332	C	3.3K OHM	J	1/4W
R5419	ERDS2TJ562	C	5.6K OHM	J	1/4W
R5420	ERDS2TJ101	C	100 OHM	J	1/4W
R5424	ERDS2TJ102	C	1K OHM	J	1/4W
R5425	ERDS2TJ681	C	680 OHM	J	1/4W
R5426	ERDS2TJ153	C	15K OHM	J	1/4W
R5427	ERDS2TJ103	C	10K OHM	J	1/4W
R5428	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5429	ERDS2TJ334	C	330K OHM	J	1/4W
R5430	ERDS2TJ682	C	6.8K OHM	J	1/4W
R5431	ERDS2TJ102	C	1K OHM	J	1/4W
R5432	ERDS2TJ103	C	10K OHM	J	1/4W
R5433	ERDS2TJ562	C	5.6K OHM	J	1/4W
R5434	ERDS2TJ103	C	10K OHM	J	1/4W
R5435	ERDS2TJ563	C	56K OHM	J	1/4W
R5436	ERDS2TJ563	C	56K OHM	J	1/4W
R5437	ERDS2TJ682	C	6.8K OHM	J	1/4W
R5439	ERDS2TJ103	C	10K OHM	J	1/4W
R5442	ERDS2TJ103	C	10K OHM	J	1/4W
R5443	ERDS2TJ562	C	5.6K OHM	J	1/4W
R5444	EVND4AA00B24	CONTROL	B	20K OHM	
R5445	ERDS2TJ822	C	8.2K OHM	J	1/4W
R5446	ERDS2TJ393	C	39K OHM	J	1/4W
R5447	ERDS2TJ473	C	47K OHM	J	1/4W
R5450	ERDS2TJ391	C	390 OHM	J	1/4W
R5451	ERDS2TJ103	C	10K OHM	J	1/4W
R5452	ERDS2TJ183	C	18K OHM	J	1/4W
R5453	ERDS2TJ563	C	56K OHM	J	1/4W
R5454	ERDS2TJ473	C	47K OHM	J	1/4W
R5455	EVND4AA00B54	CONTROL	B	50K OHM	
R5456	ERDS2TJ561	C	560 OHM	J	1/4W
R5457	ERDS2TJ391	C	390 OHM	J	1/4W
R5458	ERDS1FJ331	C	330 OHM	J	1/2W
R5459	ERDS2TJ222	C	2.2K OHM	J	1/4W
R5461	ERDS2TJ681	C	680 OHM	J	1/4W
R5463	ERDS2TJ152	C	1.5K OHM	J	1/4W
R5464	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5465	ERD25FJ102K	C	1K OHM	J	1/4W
R5466	ERDS2TJ331	C	330 OHM	J	1/4W
R5472	ERDS2TJ682	C	6.8K OHM	J	1/4W
R5475	ERDS2TJ222	C	2.2K OHM	J	1/4W
R5476	ERDS2TJ103	C	10K OHM	J	1/4W
R5477	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5480	ERDS2TJ272	C	2.7K OHM	J	1/4W
R5481	ERDS2TJ682	C	6.8K OHM	J	1/4W
R5486	ERDS2TJ122	C	1.2K OHM	J	1/4W
R5487	ERDS2TJ821	C	820 OHM	J	1/4W
R5488	ERDS2TJ122	C	1.2K OHM	J	1/4W
R5491	ERDS2TJ122	C	1.2K OHM	J	1/4W
R5492	ERDS2TJ101	C	100 OHM	J	1/4W
R5518	ERDS2TJ105	C	1M OHM	J	1/4W
R5520	ERDS2TJ223	C	22K OHM	J	1/4W
R5601	ERD25FJ331K	C	330 OHM	J	1/4W
R5602	ERDS2TJ103	C	10K OHM	J	1/4W
R5603	ERDS2TJ103	C	10K OHM	J	1/4W
R5604	EROS2CKF7500	M	750 OHM	F	1/4W
R5605	EROS2CKF3651	M	3.65K OHM	F	1/4W
R5606	ERD25FJ331K	C	330 OHM	J	1/4W
R5607	ERDS2TJ103	C	10K OHM	J	1/4W
R5608	ERDS2TJ103	C	10K OHM	J	1/4W
R5609	EROS2CKF7500	M	750 OHM	F	1/4W
R5610	EROS2CKF3651	M	3.65K OHM	F	1/4W
R5611	ERD25FJ331K	C	330 OHM	J	1/4W
R5612	ERDS2TJ103	C	10K OHM	J	1/4W
R5613	ERDS2TJ103	C	10K OHM	J	1/4W
R5615	ERDS2TJ223	C	22K OHM	J	1/4W
R5616	ERDS2TJ473	C	47K OHM	J	1/4W
R5617	ERDS2TJ563	C	56K OHM	J	1/4W
R5618	ERDS2TJ333	C	33K OHM	J	1/4W
R5619	ERDS2TJ223	C	22K OHM	J	1/4W
R5620	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5621	ERDS2TJ223	C	22K OHM	J	1/4W
R5622	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5624	ERDS2TJ821	C	820 OHM	J	1/4W
R5625	EROS2CKF2431	M	2.43K OHM	F	1/4W
R5626	EROS2CKF8200	M	820 OHM	F	1/4W
R5627	EROS2CKF1741	M	1.74K OHM	F	1/4W
R5628	EROS2CKF8200	M	820 OHM	F	1/4W
R5632	ERDS2TJ331	C	330 OHM	J	1/4W
R5636	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5637	ERDS2TJ331	C	330 OHM	J	1/4W
R5639	ERDS2TJ101	C	100 OHM	J	1/4W
R5640	ERDS2TJ223	C	22K OHM	J	1/4W
R5641	ERDS2TJ272	C	2.7K OHM	J	1/4W
R5643	ERDS2TJ102	C	1K OHM	J	1/4W
R5644	ERDS2TJ151	C	150 OHM	J	1/4W
R5645	ERDS2TJ151	C	150 OHM	J	1/4W
R5646	ERDS2TJ151	C	150 OHM	J	1/4W
R5647	ERDS2TJ271	C	270 OHM	J	1/4W
R5648	ERDS2TJ221	C	220 OHM	J	1/4W
R5649	ERDS2TJ271	C	270 OHM	J	1/4W
R5650	ERDS2TJ221	C	220 OHM	J	1/4W
R5651	ERDS2TJ271	C	270 OHM	J	1/4W
R5652	ERDS2TJ221	C	220 OHM	J	1/4W
R5653	ERDS2TJ562	C	5.6K OHM	J	1/4W
R5654	ERDS1FJ151	C	150 OHM	J	1/2W
R5751	ERDS2TJ393	C	39K OHM	J	1/4W
R5752	ERDS2TJ682	C	6.8K OHM	J	1/4W
R5753	ERDS2TJ471	C	470 OHM	J	1/4W
R5754	ERDS2TJ182	C	1.8K OHM	J	1/4W
R5755	ERDS2TJ102	C	1K OHM	J	1/4W
R5756	ERDS2TJ222	C	2.2K OHM	J	1/4W
R5757	ERDS2TJ153	C	15K OHM	J	1/4W
R5758	ERDS2TJ154	C	150K OHM	J	1/4W
R5759	ERDS2TJ124	C	120K OHM	J	1/4W
R5760	ERDS2TJ154	C	150K OHM	J	1/4W
R5761	ERDS2TJ473	C	47K OHM	J	1/4W
R5762	ERDS2TJ102	C	1K OHM	J	1/4W
R5763	ERDS2TJ103	C	10K OHM	J	1/4W
R5764	EVND1AA00B24	CONTROL	B	20K OHM	
R5765	ERDS2TJ472	C	4.7K OHM	J	1/4W
R5766	ERDS2TJ272	C	2.7K OHM	J	1/4W
R5767	ERDS2TJ473	C	47K OHM	J	1/4W
R5770	ERDS2TJ563	C	56K OHM	J	1/4W
R5771	ERDS2TJ393	C	39K OHM	J	1/4W
R5772	ERDS2TJ182	C	1.8K OHM	J	1/4W
R5774	ERDS2TJ332	C	3.3K OHM	J	1/4W
R5775	ERDS2TJ473	C	47K OHM	J	1/4W
R5776	ERDS2TJ563	C	56K OHM	J	1/4W
R5777	ERDS2TJ153	C	15K OHM	J	1/4W
R5778	ERDS2TJ682	C	6.8K OHM	J	1/4W
R5779	ERDS2TJ223	C	22K OHM	J	1/4W

	Ref.No.	Part No.	Description
	R5780	ERDS2TJ393	C 39K OHM J 1/4W
	R5781	ERDS2TJ393	C 39K OHM J 1/4W
	R5782	ERDS2TJ393	C 39K OHM J 1/4W
	R5783	ERDS2TJ104	C 100K OHM J 1/4W
		OTHERS	
	M54	ERDS2TC0	C 0 OHM 1/4W
	K76	TES4537	SPRING(TR)
	K77	TES6583	SPRING(IC) SMALL
	M43	TJS1A4331	BNC TERMINAL W/SWITCH
	M44	TJS1A4341	BNC TERMINAL
⚠	K79	TJS1A5050	CRT SOCKET
	K78	TJS118150	8P SOCKET(VTR)
	M27	TJS6A8020	1P SOCKET
	M28	TJS6A8420	2P SOCKET
	M29	TJS8A9040	4P CONNECTOR
	K38	TMM16497	CLAMPER
	M46	TMW13718	LED HOLDER
	K30	TUW13917	CONNECTOR BRACKET
	M47	TUX14957	TERMINAL BRACKET LEG
	M30	TXAJTA2MJLZ	8P CONNECTOR ASSY
	M31	TXAJTB13MJLZ	2P CONNECTOR ASSY(A2)
	M32	TXAJTD5MJLZ1	10P CONNECTOR ASSY(B13)
	M33	TXAJTF1MJLZ1	4P CONNECTOR ASSY(D5-G5)
	M34	TXAJTG4MJLZ1	10P CONNECTOR ASSY(F1-G1)
	M35	TXAJTL1MJLZ1	8P CONNECTOR ASSY(G4-W5)
	M36	TXAJTL18MJLZ	4P CONNECTOR ASSY(L18-A18
	K29	XTN26+10B	SCREW
	K21	XTV3+10AFZ	SCREW
	K20	XTV3+8J	SCREW
	M45	XTWT983G	SCREW
	K6	XYN3+F12	SCREW
	M55	XYN3+J8	SCREW
	A5	TJS1A9790	6P CONNECTOR
	A6	TJS1A9790	6P CONNECTOR
	A7	TJS1A9830	10P CONNECTOR
	A8	TJS118610	4P CONNECTOR
	A11	TJS118670	10P CONNECTOR
	A12	TJS118650	8P CONNECTOR
	A14	TJS6A8160	10P CONNECTOR
	A15	TJS6A8570	9P CONNECTOR
	A16	TJS6A8560	4P CONNECTOR
	A18	TJS118610	4P CONNECTOR
	A22	TJS118610	4P CONNECTOR
	A23	TJS5A9490	6P CONNECTOR
	A24	TJS6A8160	10P CONNECTOR
	A26	TJS6A8570	9P CONNECTOR
	A27	TJS6A8160	10P CONNECTOR
	A29	TJS6A8160	10P CONNECTOR
	A33	TJS6A8560	4P CONNECTOR
	A35	TJS118590	2P CONNECTOR
	A36	TJS118590	2P CONNECTOR
	A40	TJS118600	3P CONNECTOR
	A51	TJS118590	2P CONNECTOR
	A71	TJS118600	3P CONNECTOR
	B1	TJS1A9780	5P CONNECTOR
	B2	TJS1A9790	6P CONNECTOR
	B3	TJS1A9780	5P CONNECTOR
	B4	TJS1A9790	6P CONNECTOR
	B5	TJS2A8350	6P CONNECTOR
	B6	TJS2A8350	6P CONNECTOR

	Ref.No.	Part No.	Description
	B7	TJS2A8390	10P CONNECTOR
	B8	TJS118590	2P CONNECTOR
	B9	TJS118650	8P CONNECTOR
	B14	TJS118590	2P CONNECTOR
	C1	TJS118590	2P CONNECTOR
	C4	TJS118590	2P CONNECTOR
	C9	TJS118650	8P CONNECTOR
	C11	TJS118670	10P CONNECTOR
	C12	TJS118650	8P CONNECTOR
	C20	TJS118610	4P CONNECTOR
	C21	TJS118600	3P CONNECTOR
	D2	TJS5A8170	4P CONNECTOR
	D3	TJS1A8140	8P CONNECTOR
	D4	TJS1A8080	2P CONNECTOR(L-TYEP)
	D5	TJS1A8160	10P CONNECTOR
	D6	TJS1A8090	3P CONNECTOR
	D7	TJS1A8080	2P CONNECTOR(L-TYEP)
	D14	TJS5A8530	10P CONNECTOR
	D15	TJS5A8150	9P CONNECTOR
	E20	TJS1A8110	4P CONNECTOR
	E23	TJS5A8760	6P CONNECTOR
	E24	TJS5A8520	10P CONNECTOR
	E25	TJS1A8090	3P CONNECTOR
	E26	TJS1A8080	2P CONNECTOR(L-TYEP)
	F1	TJS1A8100	4P CONNECTOR
	F21	TJS1A8090	3P CONNECTOR
	F22	TJS1A8100	4P CONNECTOR
	F29	TJS5A8520	10P CONNECTOR
	F33	TJS5A8170	4P CONNECTOR
	F40	TJS1A8090	3P CONNECTOR
⚠	F801-1	TJC6319	TERMINAL
	G1	TJS1A8100	4P CONNECTOR
	G4	TJS1A8160	10P CONNECTOR
	G5	TJS1A8160	10P CONNECTOR
	G26	TJS5A8150	9P CONNECTOR
	G27	TJS5A852Q	10P CONNECTOR
	JK522	TJS1A7210	1P JACK(HEADPHONE)
	L1	TJS118650	8P CONNECTOR
	L18	TJS118610	4P CONNECTOR
	W1	TJS2A8340	5P CONNECTOR
	W2	TJS2A8350	6P CONNECTOR
	W3	TJS2A8340	5P CONNECTOR
	W4	TJS2A8350	6P CONNECTOR
	W5	TJS1A8160	10P CONNECTOR
	DL601	EFDEN645A61F	CERAMIC FILTER
⚠	S801	ESB99857V	SWITCH
	S3301	EVQR4AL13	SWITCH
	S4301	TSE10328	SWITCH
	S4302	TSE80391	SWITCH
	S4303	TSE383	SWITCH
	S4304	TSE80391	SWITCH
	S4305	TSE80382	SWITCH
	S5101	TSE10430	SWITCH
	S5102	TSE10431	SWITCH
	S5103	ESD323251	SWITCH
	X601	TSS2002D	CRYSTAL OSCILLATOR
	X602	TSS2026M	CRYSTAL OSCILLATOR

Printed in Japan
H910202900TO